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**Variability of Major Organic
Components in Aircraft Fuels
Volume III: SAMPLE DATA PACKAGE FOR
THE REFERENCE JP-4 FUEL(Volume III of III)**

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| 21 | 04 | | | | | | | | | | | |
| 19. ABSTRACT (Continue on reverse if necessary and identify by block number) <p>This report summarizes qualitative and quantitative data on the chemical variability of approximately 300 features (chemical components or mixtures of components) with concentrations greater than 0.1 mg/ml in Air Force distillate fuels obtained from over 50 sources. These data were obtained to better understand the environmental effects of possible fuel spills and to serve as a data baseline in photochemical smog and soot formation studies. ~</p> <p>→ Fifty-four petroleum-derived JP-4 fuels, one shale-derived JP-4 fuel, and one petroleum -derived JP-5 fuel were analyzed. The variability of the absolute concentrations in mg/ml was assessed for each feature in the capillary GC/FID(gas chromatography/flame ionization detection) analysis of the 54 fuels. Data base management programs developed and used in this assessment included the calculation of averages, ranges, standard deviations, and percent relative standard deviations of the 300 chromatographic feature concentrations in duplicate analyses of almost all of the fuels. The variability of the data acquisition and data analysis phases of the study was also assessed by calculating the</p> | | | | | | | | | | | | |
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11. Cont'd

Fuels, Volume III: Sample Data Package for the Reference JP-4 Fuel (Volume III of III)

19. Cont'd

averages, ranges, standard deviations, and percent relative standard deviations for the 300 feature concentrations of one JP-4 fuel, which was used as the Reference Fuel and analyzed 14 times.

This report is presented in three volumes. Volume I contains the technical discussion, Volume II consists of illustrations, and Volume III contains the sample data package for JP-4 reference fuel.

PREFACE

This research was conducted by Monsanto Company, Dayton Laboratory, 1515 Nicholas Road, Dayton, Ohio 45407 under contract No. F08635-83-C-0067, and JON 19002027 for the Headquarters Air Force Engineering and Services Center, Engineering and Services Laboratory, Environics Division, Tyndall AFB, Florida 32403. Thomas B. Stauffer was the AFESC/RDVC Project Officer.

The work was begun in December 1982 and completed in November 1983. This Interim report covers the analysis of 54 different JP-4 fuel samples, one JP-5 sample and one shale-derived JP-4 sample.

This report is presented in three volumes. Volume I contains the technical discussion, Volume II consists of illustrations and Volume III contains the sample data package for JP-4 reference fuel.

This report has been reviewed by the Public Affairs Office and is releasable to the National Technical Information Service (NTIS). At NTIS it will be available to the general public, including foreign nations.

This report has been reviewed and is approved for publication.

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SECTION I
SAMPLE DATA PACKAGE FOR THE REFERENCE JP-4 FUEL

DATA PACKAGE FOR FUEL #607

-tan sheet-

- | | |
|---------------------------|---------|
| 1. GC/FID Chromatogram #1 | DFR 162 |
| 2. GC/FID Chromatogram #2 | DFR 163 |

-yellow sheet-

- | | |
|---|---------|
| 3. Processed File Containing Retention Times #1 | DFP 162 |
| 4. Processed File Containing Retention Times #2 | DFP 163 |

-green sheet-

- | | |
|------------------------------------|---|
| 5. Table Correlating RT with KI #1 | ✓ |
| 6. Table Correlating RT with KI #2 | ✓ |

-orange sheet-

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|--|---------|
| 7. Processed File (Absolute Amounts) #1 | BKP 162 |
| 8. Processed File (Absolute Amounts) #2 | BKP 163 |
| 9. Data Base Statistics (Absolute Amounts) | ✓ |

-gold sheet-

- | | |
|---|---------|
| 10. Processed File (% Rel. to Ref.) #1 | BIP 162 |
| 11. Processed File (% Rel. to Ref.) #2 | BIP 163 |
| 12. Data Base Statistics (% Rel. to Ref.) | MH ✓ |

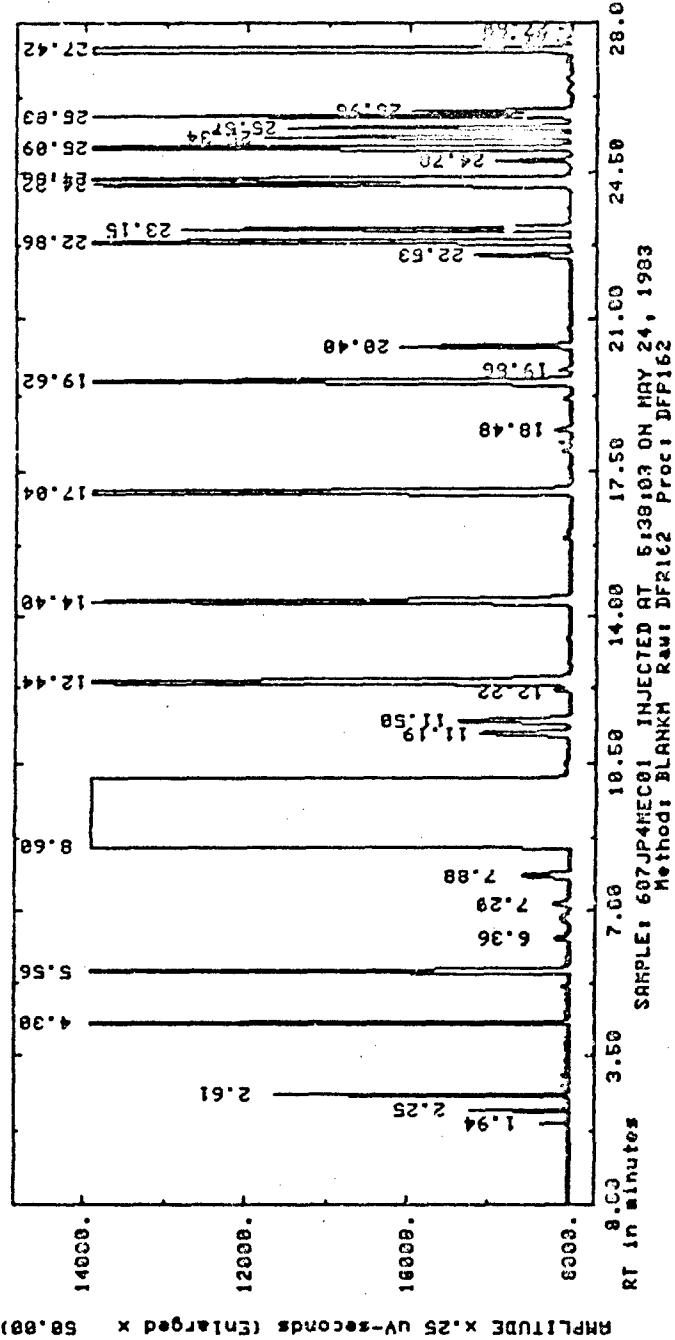
-blue sheet-

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|------------------------|-----------|
| 13. GC/MS Chromatogram | FRN 17742 |
|------------------------|-----------|

-pink sheet-

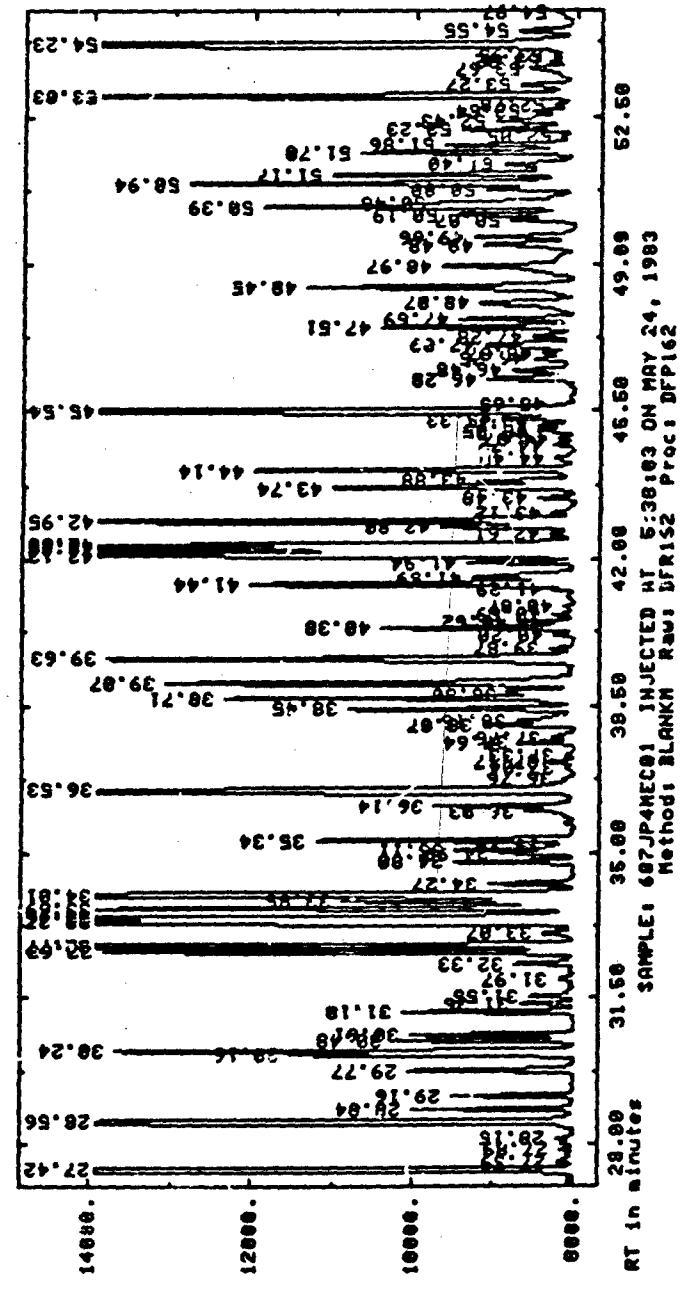
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| 14. ISTD Output from MS | #1 ✓ |
| | #2 ✓ |

GC/FID CHROMATOGRAMS OF FUEL #607



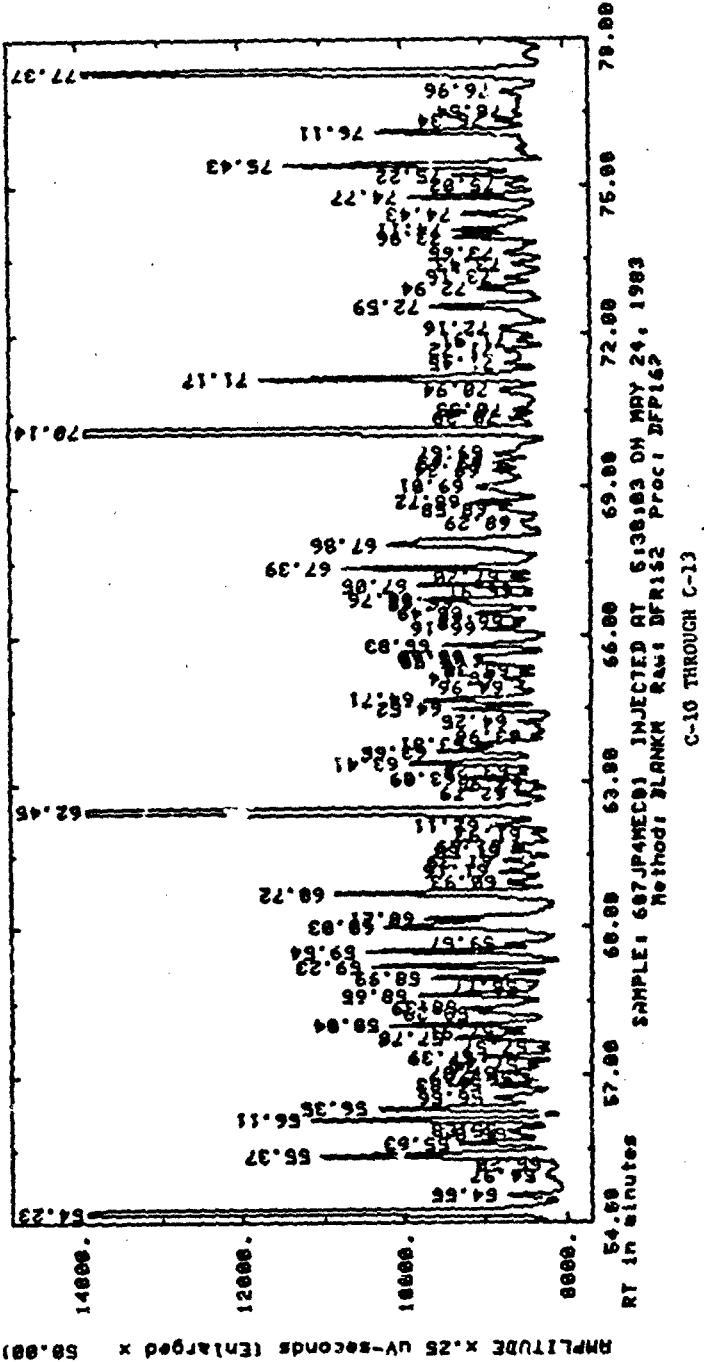
SAMPLE: 607JP4HEC01 INJECTED AT 6:38:03 ON MAY 24, 1983
Method: BLANKH RANI DFR162 Proc: DFP162

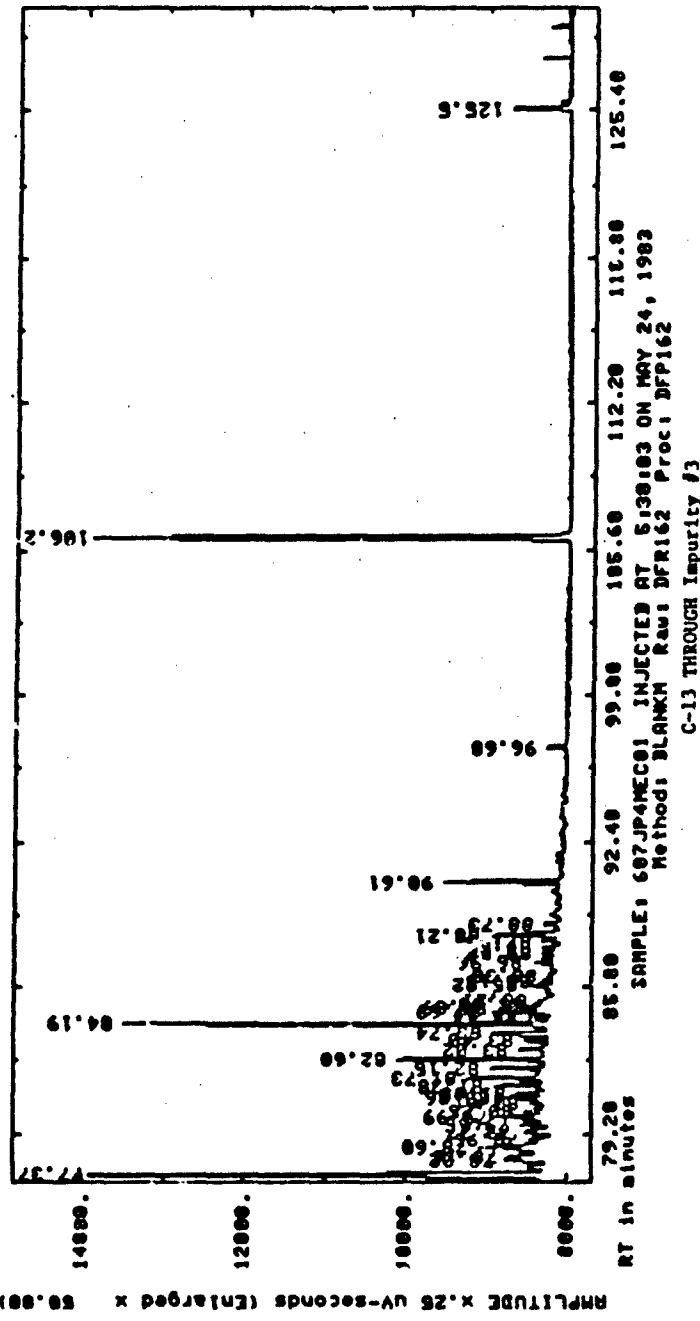
C-3 THROUGH C-7

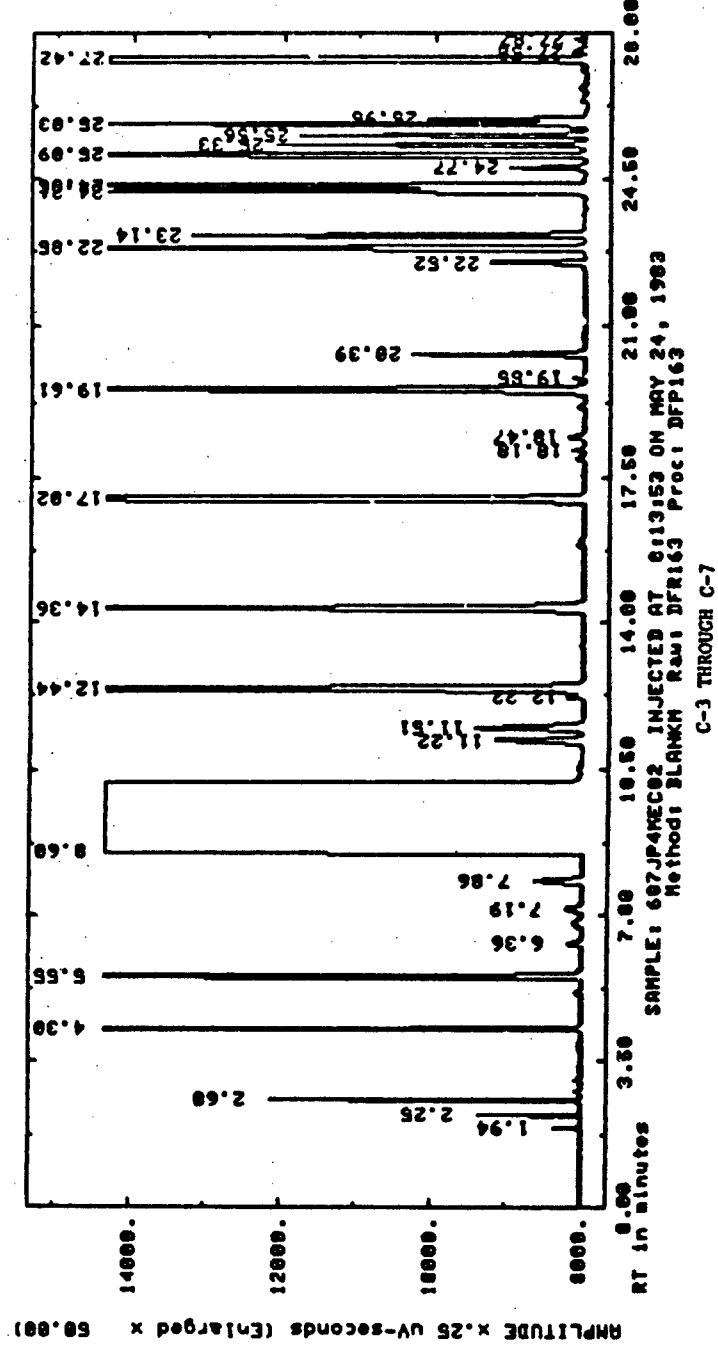


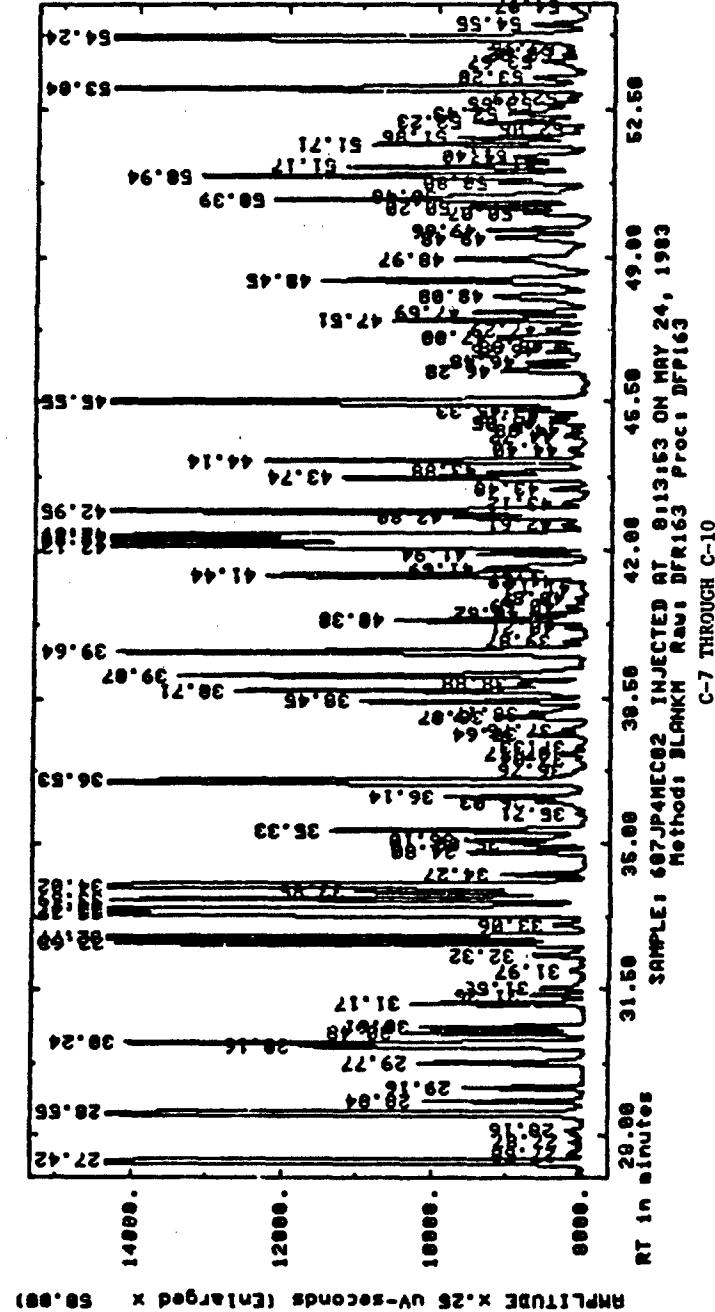
SAMPLE: 687JP4HEC01 INJECTED AT 6:38:03 ON MAY 24, 1983
Method: BLANKN Raw: BFR152 Proc: BFP162

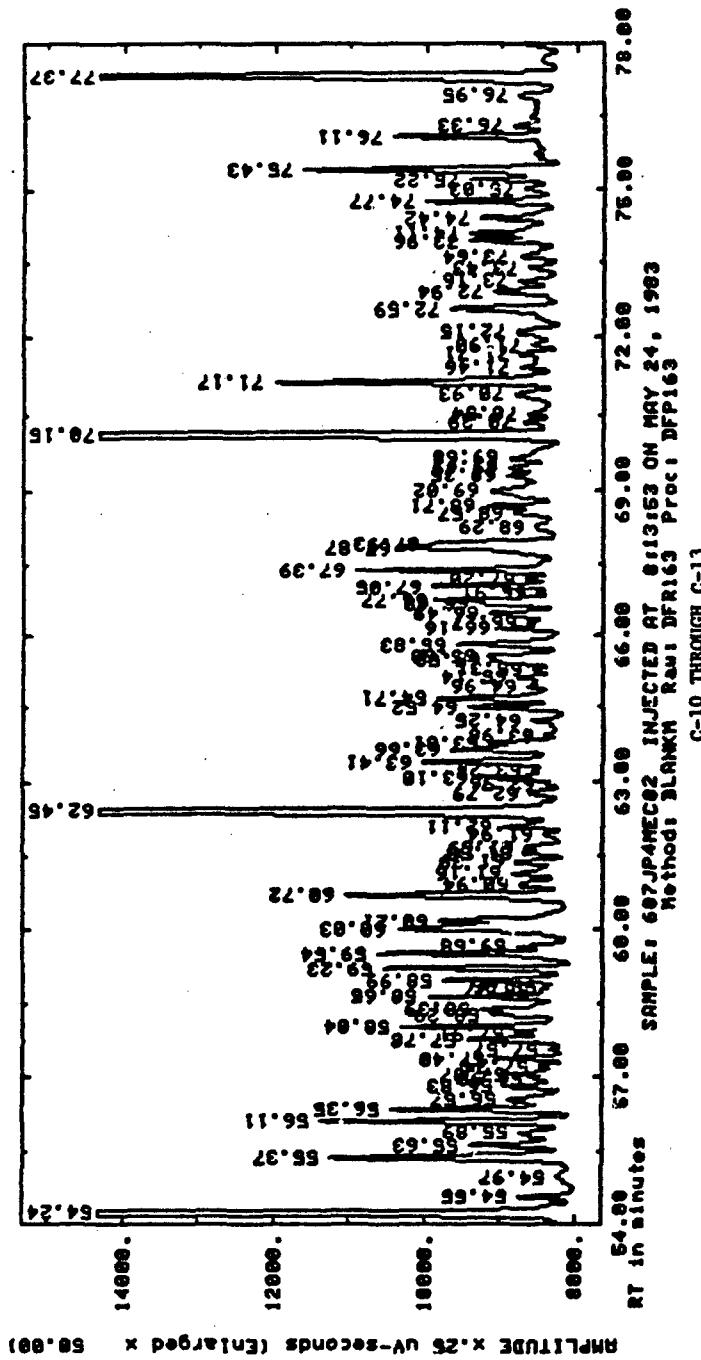
C-7 THROUGH C-10

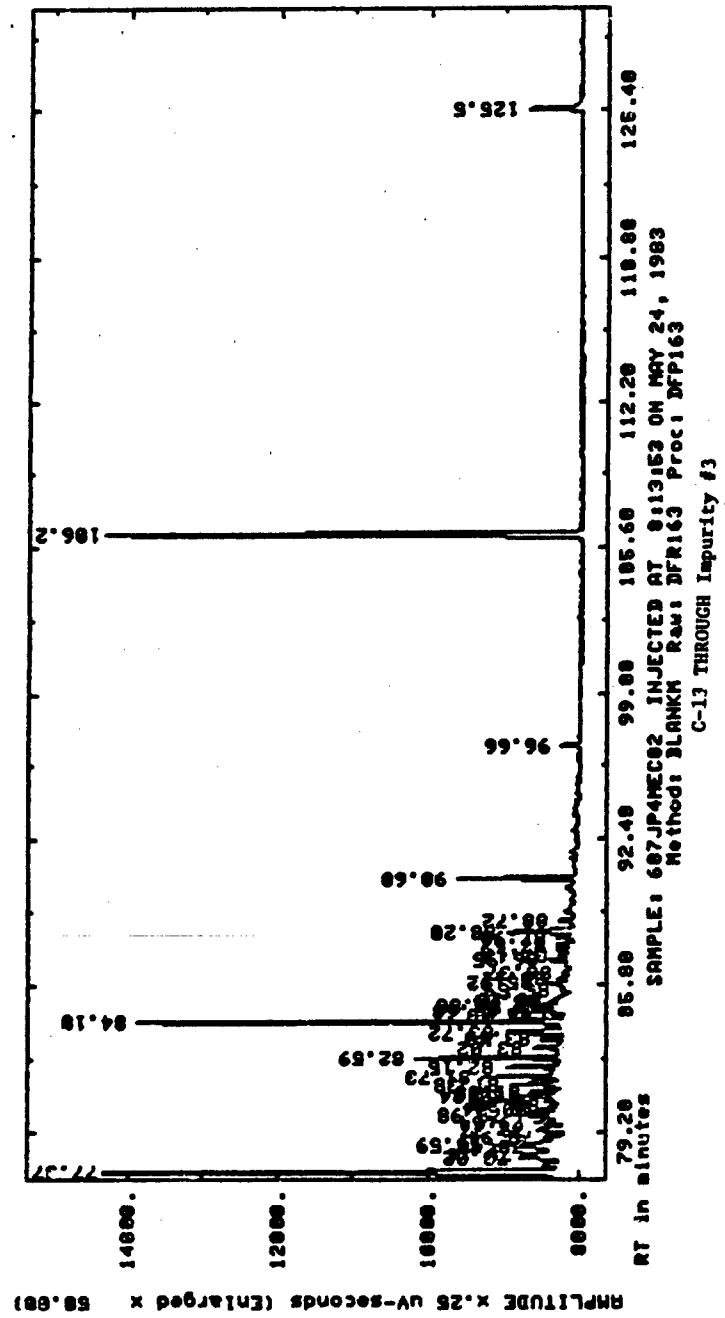












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RETENTION TIMES OF FEATURES IN FUEL #1607

REPORT: 7.21 CHANNEL: 12 DISTILLATE FUELS

SAMPLE: 607JP4MEC01 INJECTED AT 5:38:03 ON MAY 24, 1983

ISTD METHOD: DFANNE BTL: 13

ACTUAL RUN TIME: 130.021 MINUTES

ISTD-RATIO: 10.000 ms/m1 STD-AMT: 10.0000 SAMP-AMT: 1.0000

| RT | AREA | ms/m1 | NAME |
|-------|-------------|--------|-----------------------|
| 1.94 | 622 VV | .131 | |
| 2.25 | 2270 VV | .478 | |
| 2.61 | 7088 BV | 1.491 | \$400-(KI= 400)M |
| 4.30 | 31125 VV | 6.548 | |
| 5.56 | 47377 VV | 9.967 | \$500-(KI= 500)M |
| 6.36 | 678 VV | .143 | |
| 7.20 | 1041 VV | .219 | |
| 7.98 | 4102 BV | .863 | |
| 8.60 | 16843340 ++ | 0.000 | CH2CL2 SOLVENT |
| 11.19 | 7456 VV | 1.569 | |
| 11.50 | 9037 VV | 1.901 | |
| 12.22 | 521 VB | .110 | IMPURITY #1-(KI= 558) |
| 12.44 | 53562 BV | 11.268 | |
| 14.40 | 37693 VV | 7.930 | |
| 17.04 | 92429 VV | 19.445 | \$600-(KI= 600)M |
| 18.48 | 1153 BB | .243 | |
| 19.62 | 49092 VV | 10.328 | |
| 19.86 | 569 VB | .120 | |
| 20.40 | 9566 BB | 2.013 | |
| 22.53 | 5491 VV | 1.153 | |
| 22.86 | 46372 BB | 9.756 | |
| 23.15 | 19578 BB | 4.119 | |
| 24.22 | 27270 BV | 5.737 | |
| 24.36 | 63988 VB | 13.083 | |
| 24.78 | 3974 VB | .836 | IMPURITY #2-(KI= 674) |
| 25.09 | 79920 BV | 16.814 | |
| 25.34 | 14215 VV | 2.990 | |
| 25.57 | 13623 VV | 2.866 | |
| 25.83 | 24739 VV | 5.205 | |
| 25.96 | 7681 VB | 1.616 | |
| 27.42 | 145618 VV | 30.635 | \$700-(KI= 700)M |
| 27.59 | 681 VV | .143 | |
| 27.99 | 670 VV | .141 | |
| 28.15 | 1028 VB | .216 | |
| 28.56 | 92241 VV | 19.406 | |
| 28.84 | 8329 VV | 1.752 | |
| 29.16 | 5982 BB | 1.258 | |
| 29.77 | 9375 FB | 1.972 | |
| 30.16 | 13897 BV | 2.924 | |
| 30.24 | 23418 VV | 4.927 | |
| 30.48 | 9329 VV | 1.963 | |
| 30.61 | 8431 VB | 1.774 | |
| 31.18 | 9021 BV | 1.898 | |

31.36 2881 VV .606
 31.55 2694 VB .567
 31.97 763 BB .160

REPORT: 7.21 (CONTINUED) PAGE: 2 DISTILLATE FUELS

| RT | AREA | mS/mI | NAME |
|-------|-----------|--------|------------------|
| 32.33 | 3411 BB | .718 | |
| 32.63 | 24650 BV | 5.186 | |
| 32.77 | 48979 VV | 10.304 | |
| 33.07 | 1641 VB | .345 | |
| 33.37 | 103187 BV | 21.708 | |
| 33.46 | 40231 VV | 8.464 | |
| 33.69 | 26884 VV | 5.656 | |
| 33.85 | 14501 VV | 3.051 | |
| 34.01 | 117029 VV | 24.621 | |
| 34.27 | 4803 V2 | 1.010 | |
| 34.80 | 6558 BV | 1.380 | |
| 34.99 | 4029 VV | .948 | |
| 35.11 | 7339 VV | 1.544 | |
| 35.20 | 799 VV | .168 | |
| 35.34 | 14981 VB | 3.152 | |
| 36.03 | 3437 VV | .723 | |
| 36.14 | 8290 VB | 1.744 | |
| 36.53 | 155096 BV | 32.629 | \$800-(KI= 800)M |
| 36.76 | 537 VB | .113 | |
| 37.04 | 739 BV | .156 | |
| 37.17 | 1407 VV | .296 | |
| 37.33 | 519 VB | .109 | |
| 37.64 | 3229 BV | .679 | |
| 37.76 | 1565 VV | .329 | |
| 38.07 | 5224 VV | 1.099 | |
| 38.16 | 4674 VV | .983 | |
| 38.43 | 12981 VV | 2.731 | |
| 38.71 | 22348 VV | 4.702 | |
| 38.80 | 6300 ++ | 1.325 | |
| 39.07 | 32506 VV | 6.839 | |
| 39.63 | 36176 BV | 7.611 | |
| 39.87 | 1359 VB | .286 | |
| 40.20 | 1198 BV | .252 | |
| 40.38 | 11895 VV | 2.503 | |
| 40.52 | 3396 VV | .714 | |
| 40.69 | 1433 VV | .301 | |
| 40.87 | 719 VB | .151 | |
| 41.29 | 988 BV | .208 | |
| 41.44 | 26449 VV | 5.564 | |
| 41.59 | 10082 VV | 2.121 | |
| 41.94 | 6197 VV | 1.304 | |
| 42.13 | 47233 VV | 9.937 | |
| 42.28 | 31283 VV | 6.581 | |
| 42.38 | 36010 VV | 7.576 | |
| 42.61 | 837 VB | .176 | |
| 42.80 | 7344 BV | 1.545 | |
| 42.95 | 40608 VV | 8.543 | |
| 43.12 | 1653 VB | .348 | |
| 43.48 | 2322 BV | .488 | |
| 43.74 | 16570 VV | 3.486 | |
| 43.88 | 6426 VV | 1.352 | |
| 44.14 | 20997 VV | 4.417 | |
| 44.40 | 1646 VB | .346 | |

44.72 1460 BV .307
 44.87 824 VV .173
 45.05 2364 VV .497

REPORT: 7.21 (CONTINUED) PAGE: 3 DISTILLATE FUELS

| RT | AREA | pp/mi | NAME |
|-------|----------|--------|--------------------|
| 45.17 | 2304 VV | .485 | |
| 45.33 | 4588 VV | .965 | |
| 45.54 | 92413 VV | 19.442 | \$900-(KI= 900)M |
| 45.65 | 756 VB | .159 | |
| 46.28 | 6545 BV | 1.377 | |
| 46.48 | 3850 VB | .810 | |
| 46.75 | 2051 BV | .432 | |
| 46.87 | 1641 VV | .345 | |
| 47.09 | 9214 VV | 1.938 | |
| 47.28 | 2564 VV | .539 | |
| 47.51 | 12322 VV | 2.592 | |
| 47.69 | 6797 VV | 1.430 | |
| 48.07 | 10281 VV | 2.163 | |
| 48.45 | 22647 VV | 4.764 | |
| 48.97 | 17165 VV | 3.611 | |
| 49.48 | 8016 VV | 1.687 | |
| 49.66 | 7281 VV | 1.532 | |
| 50.07 | 4675 VV | .983 | |
| 50.19 | 6297 VV | 1.746 | |
| 50.39 | 23100 VV | 4.860 | |
| 50.48 | 7612 VV | 1.601 | |
| 50.80 | 4613 VV | .971 | |
| 50.94 | 24681 VV | 5.192 | |
| 51.17 | 11912 VV | 2.506 | |
| 51.40 | 2788 BV | .587 | |
| 51.70 | 13040 VV | 2.743 | |
| 51.86 | 8641 VV | 1.818 | |
| 52.05 | 566 VV | .119 | |
| 52.23 | 8183 VV | 1.722 | |
| 52.43 | 7379 VV | 1.552 | |
| 52.64 | 2919 VV | .614 | |
| 52.78 | 1163 VV | .245 | |
| 53.03 | 40786 VV | 8.591 | |
| 53.27 | 4594 VV | .967 | |
| 53.67 | 5288 VV | 1.113 | |
| 53.92 | 1623 VV | .341 | |
| 53.93 | 1326 VV | .279 | |
| 54.23 | 74820 VV | 15.741 | \$1000-(KI= 1000)M |
| 54.55 | 3959 VB | .833 | |
| 54.97 | 2434 BV | .512 | |
| 55.20 | 531 VV | .112 | |
| 55.37 | 21753 VV | 4.575 | |
| 55.63 | 8262 VV | 1.738 | |
| 55.81 | 2802 VV | .589 | |
| 55.88 | 4011 VV | .844 | |
| 56.11 | 17275 VV | 3.634 | |
| 56.35 | 12569 VV | 2.644 | |
| 56.56 | 8809 VV | 1.811 | |
| 56.83 | 5575 VV | 1.173 | |
| 56.97 | 2229 VV | .469 | |
| 57.07 | 4662 VV | .985 | |
| 57.24 | 2217 VV | .467 | |
| 57.39 | 5024 VV | 1.057 | |

57.57 1489 VV .313
 57.78 8529 VV 1.794
 57.91 3341 VV .703

REPORT: 7.21 (CONTINUED) PAGE: 4 DISTILLATE FUELS

| RT | AREA | ms/ml | NAME |
|-------|----------|--------|--------------------|
| 58.04 | 13268 VV | 2.791 | |
| 58.29 | 5265 VV | 1.108 | |
| 58.39 | 8487 VV | 1.786 | |
| 58.65 | 10556 VV | 2.221 | |
| 58.77 | 2543 VV | .535 | |
| 58.99 | 9084 VV | 1.911 | |
| 59.23 | 12550 VV | 2.640 | |
| 59.54 | 14265 VV | 3.001 | |
| 59.67 | 3483 VV | .733 | |
| 60.03 | 18570 VV | 3.907 | |
| 60.21 | 10455 VV | 2.200 | |
| 60.72 | 17833 VV | 3.752 | |
| 60.93 | 4786 VV | 1.007 | |
| 61.16 | 5634 VV | 1.185 | |
| 61.39 | 3408 VV | .717 | |
| 61.58 | 2634 VV | .554 | |
| 61.69 | 2966 VV | .624 | |
| 61.93 | 1467 VV | .309 | |
| 62.11 | 5306 VV | 1.116 | |
| 62.45 | 89668 VV | 18.864 | \$1100-(KI= 1100)M |
| 62.79 | 2834 VV | .596 | |
| 62.95 | 591 VV | .124 | |
| 63.09 | 5976 VV | 1.257 | |
| 63.24 | 1833 VV | .386 | |
| 63.41 | 11318 VV | 2.381 | |
| 63.65 | 9839 VV | 2.070 | |
| 63.81 | 4571 VV | .962 | |
| 63.96 | 695 VV | .146 | |
| 64.25 | 1594 BV | .335 | |
| 64.52 | 6074 VV | 1.278 | |
| 64.71 | 8886 VV | 1.869 | |
| 64.96 | 524 BV | .110 | |
| 65.14 | 1199 BV | .252 | |
| 65.30 | 866 VV | .182 | |
| 65.50 | 5489 VV | 1.155 | |
| 65.60 | 4727 VV | .994 | |
| 65.83 | 8427 VV | 1.773 | |
| 66.15 | 4274 VV | .809 | |
| 66.28 | 1857 VV | .391 | |
| 66.49 | 7384 VV | 1.553 | |
| 66.68 | 4145 VV | .872 | |
| 66.76 | 8671 VV | 1.824 | |
| 66.91 | 1207 VV | .254 | |
| 67.03 | 8445 VV | 1.777 | |
| 67.20 | 2277 VV | .479 | |
| 67.39 | 15815 VV | 3.327 | |
| 67.86 | 22925 VV | 4.823 | |
| 68.29 | 3342 VV | .703 | |
| 68.58 | 4319 VV | .909 | |
| 68.72 | 5206 VV | 1.095 | |
| 69.01 | 12081 VV | 2.542 | |
| 69.34 | 5958 VV | 1.253 | |
| 69.49 | 4854 VV | 1.021 | |

69.67 6556 VV 1.379
 70.14 72724 VV 15.300 \$1200-(KI= 1200)M
 70.39 2368 VV .709

REPORT: 7.21 (CONTINUED) PAGE: 5 DISTILLATE FUELS

| RT | AREA | ms/ml | NAME |
|-------|----------|--------|--------------------|
| 70.55 | 3314 VV | .697 | |
| 70.94 | 5509 VV | 1.159 | |
| 71.17 | 24112 VV | 5.073 | |
| 71.45 | 4912 VV | 1.033 | |
| 71.72 | 3087 VV | .649 | |
| 71.91 | 2088 VV | .439 | |
| 72.16 | 5628 VV | 1.184 | |
| 72.39 | 11450 VV | 2.409 | |
| 72.94 | 7101 VV | 1.494 | |
| 73.16 | 3328 VV | .700 | |
| 73.43 | 2592 VV | .345 | |
| 73.65 | 4732 VV | .996 | |
| 73.96 | 6520 VV | 1.372 | |
| 74.11 | 9723 VV | 2.046 | |
| 74.43 | 7507 VV | 1.579 | |
| 74.77 | 9739 VV | 2.049 | |
| 75.02 | 3599 VV | .757 | |
| 75.22 | 6540 VV | 1.376 | |
| 75.43 | 19729 VV | 4.151 | |
| 76.11 | 10616 BV | 2.234 | |
| 76.34 | 1813 VV | .381 | |
| 76.54 | 577 VV | .121 | |
| 76.96 | 2131 BV | .448 | |
| 77.37 | 61407 VV | 12.919 | \$1300-(KI= 1300)M |
| 78.02 | 3257 BV | .685 | |
| 78.16 | 2245 BV | .472 | |
| 78.60 | 3552 BV | .747 | |
| 78.96 | 1458 VV | .307 | |
| 79.27 | 3454 VV | .727 | |
| 79.65 | 2000 VV | .421 | |
| 79.99 | 2770 BV | .583 | |
| 80.25 | 1047 VV | .220 | |
| 80.61 | 1006 VV | .212 | |
| 80.86 | 4386 VV | .923 | |
| 81.05 | 2199 VV | .463 | |
| 81.38 | 3783 BV | .796 | |
| 81.73 | 6916 BB | 1.453 | |
| 82.16 | 3580 BV | .753 | |
| 82.60 | 9993 BB | 2.102 | |
| 83.02 | 1856 BB | .390 | |
| 83.40 | 1614 BV | .340 | |
| 83.74 | 6479 VV | 1.363 | |
| 84.19 | 29058 BV | 6.113 | \$1400-(KI= 1400)M |
| 84.44 | 1381 VV | .291 | |
| 84.69 | 4556 VV | .958 | |
| 84.89 | 4357 VV | .917 | |
| 85.05 | 1164 VV | .245 | |
| 85.21 | 1140 BV | .240 | |
| 85.92 | 2288 BV | .481 | |
| 86.13 | 706 BV | .149 | |
| 86.38 | 557 BB | .117 | |
| 86.96 | 1357 BV | .286 | |
| 87.42 | 869 VV | .183 | |

87.62 1203 VV .253
87.96 1620 VV .341
88.21 7022 VB 1.477

REPORT: 7.21 (CONTINUED) PAGE: 6 DISTILLATE FUELS

| RT | AREA | ms/ml | NAME |
|--------|----------|-------|------------------------|
| 88.73 | 1530 BB | .322 | |
| 90.61 | 8346 BB | 1.756 | \$1500-(KI= 1500)M |
| 96.68 | 1330 BB | .280 | \$1600-(KI= 1600)M |
| 106.22 | 52286 BB | | &ANTH-d10(IS)(KI=1772) |
| 125.50 | 4562 BB | .960 | \$2118-(IMPURITY #3)M |

TOTAL AREA = 20338776 TOTAL ms/ml = 724.372

PROCESSED DATA FILE: DFP162 RAW DATA FILE: DFR162

REPORT: 8.41 CHANNEL: 12

DISTILLATE FUELS

SAMPLE: 607JP4MEC02 INJECTED AT 8:13:53 ON MAY 24, 1983

ISTD METHOD: DFANME BTL: 13

ACTUAL RUN TIME: 130.017 MINUTES

ISTD-RATIO: 10.000 RS/R1 STD-AMT: 10.0000 SAMP-AMT: 1.0000

| RT | AREA | RS/R1 | NAME |
|-------|-------------|--------|-----------------------|
| 1.94 | 646 VV | .127 | |
| 2.25 | 2399 VV | .472 | |
| 2.60 | 7594 VV | 1.493 | \$400-(KI= 400)M |
| 4.30 | 33257 VV | 6.549 | |
| 5.55 | 50615 VV | 9.967 | \$500-(KI= 500)M |
| 6.36 | 1009 VV | .199 | |
| 7.19 | 1169 VV | .230 | |
| 7.86 | 4469 VV | .880 | |
| 8.60 | 17987276 ++ | 0.000 | CH2CL2 SOLVENT |
| 11.22 | 7936 VV | 1.563 | |
| 11.51 | 9633 VV | 1.897 | |
| 12.22 | 1118 BV | .220 | IMPURITY #1-(KI= 558) |
| 12.44 | 58420 VV | 11.504 | |
| 14.36 | 40405 VV | 7.956 | |
| 17.02 | 98952 VV | 19.485 | \$600-(KI= 600)M |
| 18.18 | 680 BB | .134 | |
| 18.47 | 1210 BV | .238 | |
| 19.61 | 52494 VV | 10.337 | |
| 19.85 | 679 VB | .134 | |
| 20.39 | 10125 BV | 1.994 | |
| 22.52 | 5659 BV | 1.154 | |
| 22.85 | 49745 RB | 9.796 | |
| 23.14 | 21013 BB | 4.138 | |
| 24.21 | 29375 VV | 5.784 | |
| 24.35 | 70773 VB | 13.936 | |
| 24.77 | 4308 BV | .849 | IMPURITY #2-(KI= 674) |
| 25.09 | 85838 VV | 16.903 | |
| 25.33 | 15284 VV | 3.010 | |
| 25.56 | 14645 VV | 2.884 | |
| 25.83 | 26588 VV | 5.236 | |
| 25.95 | 8274 VB | 1.629 | |
| 27.42 | 156508 BV | 30.819 | \$700-(KI= 700)M |
| 27.58 | 995 VV | .196 | |
| 27.87 | 642 BV | .126 | |
| 28.16 | 759 BB | .150 | |
| 28.55 | 98970 BV | 19.489 | |
| 28.84 | 8965 VB | 1.765 | |
| 29.16 | 6408 BB | 1.262 | |
| 29.77 | 10041 BB | 1.977 | |
| 30.16 | 14916 BV | 2.937 | |
| 30.24 | 25136 VV | 4.950 | |
| 30.48 | 10022 VV | 1.973 | |
| 30.61 | 9038 VB | 1.780 | |

31.17 9672 BV 1.905
 31.36 3106 VV .612
 31.55 2870 VB .565

REPORT: 8.41 (CONTINUED) PAGE: 2 DISTILLATE FUELS

| RT | AREA | ms/ml | NAME |
|-------|-----------|--------|------------------|
| 31.97 | 943 BB | .186 | |
| 32.32 | 3723 BV | .733 | |
| 32.62 | 26565 VV | 5.231 | |
| 32.77 | 52640 VV | 10.366 | |
| 33.06 | 1744 VB | .343 | |
| 33.37 | 111046 BV | 21.867 | |
| 33.47 | 43168 VV | 8.500 | |
| 33.69 | 28891 VV | 5.689 | |
| 33.85 | 15591 VV | 3.070 | |
| 34.02 | 125839 VV | 24.780 | |
| 34.27 | 5162 VB | 1.016 | |
| 34.80 | 7021 BV | 1.383 | |
| 35.00 | 4309 VV | .848 | |
| 35.10 | 8719 VV | 1.717 | |
| 35.33 | 16018 VE | 3.154 | |
| 35.71 | 522 BV | .103 | |
| 36.03 | 3711 VV | .731 | |
| 36.14 | 8777 VV | 1.728 | |
| 36.53 | 166851 BV | 32.856 | \$800-(KI= 800)M |
| 36.76 | 590 VB | .116 | |
| 37.04 | 781 BV | .154 | |
| 37.17 | 1504 VV | .296 | |
| 37.33 | 542 VB | .107 | |
| 37.64 | 3457 BV | .681 | |
| 37.76 | 1651 VB | .325 | |
| 38.07 | 5512 BV | 1.085 | |
| 38.17 | 4488 VV | .884 | |
| 38.45 | 12859 VV | 2.532 | |
| 38.71 | 18428 VV | 3.629 | |
| 38.88 | 1019 BV | .201 | |
| 39.07 | 33529 VV | 6.603 | |
| 39.64 | 38927 BV | 7.665 | |
| 39.87 | 1459 VB | .287 | |
| 40.21 | 1300 BV | .256 | |
| 40.38 | 12781 VV | 2.517 | |
| 40.52 | 3648 VV | .718 | |
| 40.69 | 1524 VV | .300 | |
| 40.87 | 769 VB | .151 | |
| 41.12 | 521 BB | .103 | |
| 41.29 | 1061 BV | .209 | |
| 41.44 | 28462 VV | 5.405 | |
| 41.59 | 10835 VV | 2.134 | |
| 41.94 | 6820 VV | 1.343 | |
| 42.13 | 51743 VV | 10.189 | |
| 42.29 | 33424 VV | 6.594 | |
| 42.39 | 39802 VV | 7.838 | |
| 42.61 | 2208 VV | .435 | |
| 42.80 | 9167 VV | 1.805 | |
| 42.95 | 44746 VV | 8.811 | |
| 43.12 | 2371 VV | .467 | |
| 43.48 | 2343 VV | .501 | |
| 43.74 | 17806 VV | 3.506 | |
| 43.88 | 6996 VV | 1.378 | |

44.14 22625 VV 4.455
 44.40 1783 VB .351
 44.72 1600 BV .315

REPORT: 8.41 (CONTINUED) PAGE: 3 DISTILLATE FUELS

| RT | AREA | ms/ml | NAME |
|-------|-----------|--------|--------------------|
| 44.88 | 926 VV | .182 | |
| 45.05 | 2632 VV | .518 | |
| 45.17 | 2553 VV | .503 | |
| 45.33 | 5101 VV | 1.004 | |
| 45.55 | 100743 VV | 19.838 | \$900-(KI= 900)M |
| 46.28 | 7016 VV | 1.381 | |
| 46.48 | 4198 VB | .827 | |
| 46.75 | 2222 BV | .437 | |
| 46.88 | 1736 VV | .342 | |
| 47.08 | 9954 VV | 1.960 | |
| 47.29 | 2761 VV | .544 | |
| 47.51 | 13267 VV | 2.613 | |
| 47.69 | 7349 VV | 1.447 | |
| 48.08 | 11121 VV | 2.190 | |
| 48.45 | 24460 VV | 4.817 | |
| 48.97 | 18555 VV | 3.654 | |
| 49.48 | 8660 VV | 1.705 | |
| 49.66 | 7875 VB | 1.551 | |
| 50.07 | 5177 BV | 1.019 | |
| 50.20 | 9328 VV | 1.837 | |
| 50.39 | 25208 VV | 4.964 | |
| 50.48 | 9586 VV | 1.888 | |
| 50.80 | 6192 VV | 1.219 | |
| 50.94 | 29763 VV | 5.861 | |
| 51.17 | 17586 VV | 3.463 | |
| 51.29 | 2022 VV | .398 | |
| 51.40 | 7777 VV | 1.531 | |
| 51.71 | 14730 VV | 2.901 | |
| 51.86 | 9895 VV | 1.949 | |
| 52.06 | 934 VV | .184 | |
| 52.23 | 9417 VV | 1.854 | |
| 52.43 | 8543 VV | 1.682 | |
| 52.65 | 3415 VV | .672 | |
| 52.79 | 1557 VV | .307 | |
| 53.04 | 44456 VV | 0.754 | |
| 53.28 | 5330 VV | 1.050 | |
| 53.67 | 6129 VV | 1.207 | |
| 53.82 | 1921 VV | .378 | |
| 53.93 | 1498 VV | .293 | |
| 54.24 | 80933 VV | 15.937 | \$1000-(KI= 1000)M |
| 54.55 | 4322 VR | .851 | |
| 54.97 | 2033 BV | .401 | |
| 55.37 | 20696 VV | 4.075 | |
| 55.63 | 5419 VV | 1.067 | |
| 55.89 | 989 BV | .195 | |
| 56.11 | 16654 VV | 3.280 | |
| 56.35 | 13073 VV | 2.575 | |
| 56.57 | 8900 VV | 1.732 | |
| 56.83 | 5643 VV | 1.111 | |
| 56.98 | 2324 VV | .459 | |
| 57.07 | 4764 VV | .938 | |
| 57.24 | 2224 VV | .438 | |
| 57.40 | 5205 VV | 1.025 | |

57.57 1432 VV .282
 57.78 9019 VV 1.776
 57.91 3466 VV .682

REPORT: 8.41 (CONTINUED) PAGE: 4 DISTILLATE FUELS

| RT | AREA | ms/m1 | NAME |
|-------|----------|--------|--------------------|
| 58.04 | 14119 VV | 2.780 | |
| 58.29 | 5845 VV | 1.151 | |
| 58.39 | 8705 VV | 1.714 | |
| 58.65 | 11253 VV | 2.216 | |
| 58.77 | 1770 VV | .349 | |
| 58.86 | 940 VV | .185 | |
| 58.99 | 9715 VV | 1.913 | |
| 59.23 | 13547 VV | 2.668 | |
| 59.54 | 15316 VV | 3.016 | |
| 59.68 | 3767 VV | .742 | |
| 60.03 | 20054 VV | 3.949 | |
| 60.21 | 11157 VV | 2.197 | |
| 60.72 | 19191 VV | 3.779 | |
| 60.94 | 5110 VV | 1.006 | |
| 61.16 | 5953 VV | 1.172 | |
| 61.39 | 3725 VV | .734 | |
| 61.58 | 2884 VV | .568 | |
| 61.69 | 3097 VV | .610 | |
| 61.94 | 1559 VV | .307 | |
| 62.11 | 5668 VV | 1.116 | |
| 62.45 | 96547 VV | 19.012 | \$1100-(KI= 1100)N |
| 62.79 | 3009 VV | .592 | |
| 62.96 | 623 VV | .123 | |
| 63.10 | 6458 VV | 1.272 | |
| 63.24 | 1911 VV | .376 | |
| 63.41 | 12288 VV | 2.420 | |
| 63.66 | 10614 VV | 2.090 | |
| 63.81 | 4740 VV | .933 | |
| 63.96 | 749 VV | .148 | |
| 64.25 | 1745 BV | .344 | |
| 64.52 | 6571 VV | 1.294 | |
| 64.71 | 9385 VV | 1.888 | |
| 64.96 | 714 VV | .141 | |
| 65.14 | 1286 BV | .253 | |
| 65.31 | 947 VV | .187 | |
| 65.50 | 6080 VV | 1.197 | |
| 65.60 | 4973 VV | .979 | |
| 65.83 | 9101 VV | 1.792 | |
| 66.16 | 4535 VV | .893 | |
| 66.27 | 1988 VV | .391 | |
| 66.49 | 7797 VV | 1.535 | |
| 66.68 | 4327 VV | .852 | |
| 66.77 | 9194 VV | 1.810 | |
| 66.91 | 1157 VV | .228 | |
| 67.05 | 8849 VV | 1.743 | |
| 67.20 | 2218 VV | .437 | |
| 67.39 | 16351 VV | 3.220 | |
| 67.87 | 15188 VV | 2.991 | |
| 67.93 | 8136 VV | 1.602 | |
| 68.29 | 1640 BV | .323 | |
| 68.57 | 3578 BV | .705 | |
| 68.71 | 4886 VV | .962 | |
| 69.02 | 11528 VV | 2.270 | |

| | | |
|-------|---------|-------|
| 69.35 | 5688 VV | 1.120 |
| 69.49 | 4871 VV | .959 |
| 69.68 | 6639 VV | 1.307 |

REPORT: 8.41 (CONTINUED) PAGE: 5 DISTILLATE FUELS

| RT | AREA | ms/ml | NAME |
|-------|----------|--------|--------------------|
| 70.15 | 77616 VV | 15.284 | \$1200-(KI= 1200)M |
| 70.39 | 2765 VV | .545 | |
| 70.54 | 1703 VV | .335 | |
| 70.93 | 3755 BV | .739 | |
| 71.17 | 23398 VV | 4.607 | |
| 71.46 | 1633 VV | .321 | |
| 71.71 | 1516 BV | .299 | |
| 71.90 | 1794 VV | .353 | |
| 72.15 | 5772 VV | 1.137 | |
| 72.39 | 12315 VV | 2.425 | |
| 72.94 | 7583 VV | 1.493 | |
| 73.16 | 3594 VV | .708 | |
| 73.43 | 2767 VV | .345 | |
| 73.64 | 5956 VV | .996 | |
| 73.96 | 6947 VV | 1.368 | |
| 74.11 | 10509 VV | 2.069 | |
| 74.42 | 7990 VV | 1.573 | |
| 74.77 | 10455 VV | 2.059 | |
| 75.03 | 3804 VV | .749 | |
| 75.22 | 7024 VV | 1.383 | |
| 75.43 | 21112 VV | 4.157 | |
| 76.11 | 11383 BV | 2.242 | |
| 76.33 | 1936 VV | .381 | |
| 76.95 | 2384 BB | .470 | |
| 77.37 | 65670 BV | 12.931 | \$1300-(KI= 1300)M |
| 78.02 | 3602 BV | .709 | |
| 78.16 | 2355 VB | .464 | |
| 78.48 | 1236 BV | .243 | |
| 78.59 | 6622 VV | 1.304 | |
| 78.94 | 2275 VV | .448 | |
| 79.27 | 3793 VV | .747 | |
| 79.64 | 2902 VV | .571 | |
| 79.98 | 6072 VV | 1.196 | |
| 80.24 | 1806 VV | .356 | |
| 80.39 | 645 VB | .127 | |
| 80.60 | 1042 BV | .205 | |
| 80.84 | 4662 VV | .918 | |
| 81.05 | 2328 VV | .458 | |
| 81.38 | 4304 VV | .848 | |
| 81.73 | 6553 VV | 1.684 | |
| 82.16 | 4215 VV | .830 | |
| 82.59 | 10674 BB | 2.102 | |
| 83.02 | 2900 BB | .394 | |
| 83.40 | 1728 BV | .340 | |
| 83.72 | 7381 VV | 1.453 | |
| 84.18 | 32257 VV | 6.352 | \$1400-(KI= 1400)M |
| 84.43 | 1585 VV | .312 | |
| 84.68 | 4874 VV | .960 | |
| 84.88 | 4546 VV | .895 | |
| 85.04 | 1223 VV | .241 | |
| 85.20 | 1135 VB | .224 | |
| 85.59 | 539 BV | .106 | |
| 85.92 | 1448 BV | .285 | |

| | | |
|-------|---------|------|
| 86.11 | 696 VB | .137 |
| 86.37 | 606 BB | .119 |
| 86.95 | 1541 BV | .303 |

REPORT: 8.41 (CONTINUED) PAGE: 6 DISTILLATE FUELS

| RT | AREA | ng/ml | NAME |
|--------|----------|-------|------------------------|
| 87.13 | 701 WV | .139 | |
| 87.62 | 1077 WV | .212 | |
| 87.94 | 1767 WV | .349 | |
| 88.20 | 7452 VB | 1.467 | |
| 88.72 | 1595 BB | .314 | |
| 90.60 | 8926 BB | 1.758 | \$1500-(KI= 1500)M |
| 96.66 | 1419 BB | .279 | \$1600-(KI= 1600)M |
| 106.21 | 55861 BB | | &ANTH-d10(IS)(KI=1772) |
| 125.50 | 4711 BB | .928 | \$2118-(IMPURITY #3)M |

TOTAL AREA = 21731636 TOTAL ng/ml = 726.326

PROCESSED DATA FILE: DFP163 RAW DATA FILE: DFR163

CORRELATION OF RETENTION TIMES WITH KOVATS INDICES IN FUEL # 607

CORRELATION OF RETENTION TIMES (MIN)

WITH KOVATS INDEX FOR SAMPLE: 607JP4MEC01

PROCESSED DATA FILE: DFP162 RAW DATA FILE: DFR162

| RT | RET. INDEX | AREA | CONC. | NAME |
|-------|------------|----------|--------|-----------------------|
| 1.94 | 377 | 622 | .131 | |
| 2.25 | 388 | 2270 | .478 | |
| 2.61 | 400 | 7088 | 1.491 | \$400-(KI= 400)M |
| 4.30 | 457 | 31125 | 6.548 | |
| 5.56 | 500 | 47377 | 9.967 | \$500-(KI= 500)M |
| 6.36 | 507 | 678 | .143 | |
| 7.20 | 514 | 1041 | .219 | |
| 7.88 | 520 | 4102 | .863 | |
| 8.60 | 526 | 16843340 | | CH2CL2 SOLVENT |
| 11.19 | 549 | 7456 | 1.549 | |
| 11.50 | 552 | 9037 | 1.901 | |
| 12.22 | 558 | 521 | .110 | IMPURITY #1-(KI= 558) |
| 12.44 | 560 | 53562 | 11.268 | |
| 14.40 | 577 | 37693 | 7.930 | |
| 17.04 | 600 | 92429 | 19.445 | \$600-(KI= 600)M |
| 18.48 | 614 | 1153 | .243 | |
| 19.62 | 625 | 49092 | 10.328 | |
| 19.86 | 627 | 369 | .120 | |
| 20.40 | 632 | 9566 | 2.013 | |
| 22.53 | 653 | 5491 | 1.153 | |
| 22.86 | 656 | 46372 | 9.736 | |
| 23.15 | 659 | 19578 | 4.119 | |
| 24.22 | 669 | 27270 | 5.737 | |
| 24.36 | 670 | 65988 | 13.883 | |
| 24.78 | 675 | 3974 | .836 | IMPURITY #2-(KI= 674) |
| 25.09 | 678 | 79920 | 16.814 | |
| 25.34 | 680 | 14215 | 2.990 | |
| 25.37 | 682 | 13623 | 2.866 | |
| 25.83 | 685 | 24739 | 5.205 | |
| 25.96 | 686 | 7681 | 1.616 | |
| 27.42 | 700 | 145618 | 30.635 | \$700-(KI= 700)M |
| 27.59 | 702 | 681 | .143 | |
| 27.89 | 705 | 670 | .141 | |
| 28.15 | 708 | 1028 | .216 | |
| 28.56 | 712 | 92241 | 19.406 | |
| 28.84 | 716 | 8329 | 1.752 | |
| 29.16 | 719 | 5982 | 1.258 | |
| 29.77 | 726 | 9375 | 1.972 | |
| 30.16 | 730 | 13897 | 2.924 | |

| | | | |
|-------|-----|--------|--------|
| 30.24 | 731 | 23418 | 4.927 |
| 30.48 | 734 | 9329 | 1.963 |
| 30.61 | 735 | 8431 | 1.774 |
| 31.18 | 741 | 9021 | 1.898 |
| 31.36 | 743 | 2881 | .605 |
| 31.55 | 745 | 2694 | .567 |
| 31.97 | 750 | 763 | .160 |
| 32.33 | 754 | 3411 | .718 |
| 32.63 | 757 | 24650 | 5.186 |
| 32.77 | 759 | 48979 | 10.304 |
| 33.07 | 762 | 1641 | .345 |
| 33.37 | 765 | 103187 | 21.708 |
| 33.46 | 766 | 40231 | 8.464 |
| 33.69 | 769 | 26884 | 5.656 |
| 33.85 | 771 | 14501 | 3.051 |
| 34.01 | 772 | 17029 | 24.621 |
| 34.27 | 775 | 4803 | 1.010 |
| 34.80 | 781 | 6358 | 1.380 |
| 34.99 | 783 | 4029 | .848 |
| 35.11 | 784 | 7339 | 1.544 |
| 35.20 | 785 | 799 | .168 |
| 35.34 | 787 | 14981 | 3.152 |
| 36.03 | 794 | 3437 | .723 |
| 36.14 | 796 | 8290 | 1.744 |
| 36.53 | 800 | 155096 | 32.629 |
| 36.76 | 803 | 537 | .113 |
| 37.04 | 806 | 739 | .156 |
| 37.17 | 807 | 1407 | .296 |
| 37.33 | 809 | 519 | .109 |
| 37.64 | 812 | 3229 | .679 |
| 37.76 | 814 | 1565 | .329 |
| 38.07 | 817 | 5224 | 1.099 |
| 38.16 | 818 | 4674 | .983 |
| 38.45 | 821 | 12981 | 2.731 |
| 38.71 | 824 | 22348 | 4.702 |
| 38.80 | 825 | 6300 | 1.325 |
| 39.07 | 828 | 32506 | 6.839 |
| 39.63 | 834 | 36176 | 7.611 |
| 39.87 | 837 | 1359 | .286 |
| 40.20 | 841 | 1198 | .252 |
| 40.38 | 843 | 11895 | 2.503 |
| 40.52 | 844 | 3396 | .714 |
| 40.69 | 846 | 1433 | .301 |
| 40.87 | 848 | 719 | .151 |
| 41.29 | 853 | 988 | .208 |
| 41.44 | 854 | 26449 | 5.564 |
| 41.59 | 856 | 10082 | 2.121 |
| 41.94 | 860 | 6197 | 1.304 |
| 42.13 | 862 | 47233 | 9.937 |
| 42.28 | 864 | 31233 | 6.581 |
| 42.39 | 865 | 36010 | 7.576 |
| 42.61 | 867 | 837 | .176 |
| 42.80 | 870 | 7344 | 1.545 |
| 42.93 | 871 | 40608 | 8.543 |
| 43.12 | 873 | 1653 | .348 |
| 43.48 | 877 | 2322 | .488 |
| 43.74 | 880 | 16570 | 3.486 |
| 43.88 | 882 | 6426 | 1.352 |
| 44.14 | 884 | 20997 | 4.417 |
| 44.40 | 887 | 1646 | .346 |
| 44.72 | 891 | 1460 | .307 |

| | | | |
|-------|------|-------|--------------------------------|
| 44.87 | 893 | 824 | .173 |
| 45.05 | 895 | 2344 | .497 |
| 45.17 | 896 | 2304 | .465 |
| 45.33 | 898 | 4588 | .965 |
| 45.54 | 900 | 92413 | 19.442 \$900-(KI= 900)M |
| 45.65 | 901 | 756 | .159 |
| 46.28 | 908 | 6545 | 1.377 |
| 46.48 | 911 | 3850 | .810 |
| 46.75 | 914 | 2051 | .432 |
| 46.87 | 915 | 1641 | .345 |
| 47.09 | 918 | 9214 | 1.938 |
| 47.28 | 920 | 2564 | .539 |
| 47.51 | 923 | 12322 | 2.592 |
| 47.69 | 925 | 6797 | 1.430 |
| 48.07 | 929 | 10281 | 2.163 |
| 48.45 | 933 | 22647 | 4.764 |
| 48.97 | 939 | 17163 | 3.611 |
| 49.48 | 945 | 8017 | 1.687 |
| 49.66 | 947 | 7281 | 1.532 |
| 50.07 | 952 | 4675 | .983 |
| 50.19 | 954 | 8297 | 1.746 |
| 50.39 | 956 | 23100 | 4.860 |
| 50.48 | 957 | 7612 | 1.601 |
| 50.80 | 960 | 4613 | .971 |
| 50.94 | 962 | 24681 | 5.192 |
| 51.17 | 965 | 11912 | 2.506 |
| 51.40 | 967 | 2788 | .587 |
| 51.70 | 971 | 13040 | 2.743 |
| 51.86 | 973 | 8641 | 1.818 |
| 52.05 | 975 | 566 | .119 |
| 52.23 | 977 | 8183 | 1.722 |
| 52.43 | 979 | 7379 | 1.552 |
| 52.64 | 982 | 2919 | .614 |
| 52.78 | 983 | 1163 | .245 |
| 53.03 | 986 | 40787 | 8.581 |
| 53.27 | 989 | 4594 | .967 |
| 53.67 | 994 | 5288 | 1.113 |
| 53.82 | 995 | 1623 | .341 |
| 53.95 | 997 | 1326 | .279 |
| 54.23 | 1000 | 74820 | 15.741 \$1000-(KI= 1000)M |
| 54.55 | 1004 | 3959 | .833 |
| 54.97 | 1009 | 2434 | .512 |
| 55.20 | 1012 | 531 | .112 |
| 55.37 | 1014 | 21753 | 4.576 |
| 55.63 | 1017 | 8262 | 1.738 |
| 55.81 | 1019 | 2802 | .589 |
| 55.88 | 1020 | 4011 | .844 |
| 56.11 | 1023 | 17275 | 3.634 |
| 56.35 | 1026 | 12369 | 2.644 |
| 56.56 | 1028 | 8609 | 1.811 |
| 56.83 | 1032 | 5575 | 1.173 |
| 56.97 | 1033 | 2229 | .469 |
| 57.07 | 1035 | 4682 | .985 |
| 57.24 | 1037 | 2217 | .467 |
| 57.39 | 1039 | 5024 | 1.057 |
| 57.57 | 1041 | 1489 | .313 |
| 57.78 | 1043 | 8529 | 1.794 |
| 57.91 | 1045 | 3341 | .703 |
| 58.04 | 1046 | 13268 | 2.791 |
| 58.29 | 1049 | 5265 | 1.106 |
| 58.39 | 1051 | 8487 | 1.786 |

| | | | |
|-------|------|-------|--------------------------------|
| 58.65 | 1054 | 10556 | 2.221 |
| 58.77 | 1055 | 2543 | .535 |
| 58.99 | 1058 | 9084 | 1.911 |
| 59.23 | 1061 | 12550 | 2.640 |
| 59.54 | 1065 | 14263 | 3.001 |
| 59.67 | 1066 | 3483 | .733 |
| 60.03 | 1071 | 18570 | 3.907 |
| 60.21 | 1073 | 10455 | 2.200 |
| 60.72 | 1079 | 17833 | 3.752 |
| 60.93 | 1082 | 4786 | 1.007 |
| 61.16 | 1084 | 5634 | 1.165 |
| 61.39 | 1087 | 3408 | .717 |
| 61.58 | 1089 | 2634 | .554 |
| 61.69 | 1091 | 2966 | .624 |
| 61.93 | 1094 | 1467 | .309 |
| 62.11 | 1096 | 5206 | 1.116 |
| 62.45 | 1100 | 89668 | 18.864 \$1100-(KI= 1100)M |
| 62.79 | 1104 | 2834 | .596 |
| 62.95 | 1107 | 591 | .124 |
| 63.09 | 1108 | 5976 | 1.257 |
| 63.24 | 1110 | 1833 | .386 |
| 63.41 | 1113 | 11318 | 2.381 |
| 63.65 | 1116 | 9839 | 2.070 |
| 63.81 | 1118 | 4571 | .962 |
| 63.96 | 1120 | 695 | .146 |
| 64.25 | 1123 | 1594 | .335 |
| 64.52 | 1127 | 6074 | 1.278 |
| 64.71 | 1129 | 8886 | 1.869 |
| 64.96 | 1133 | 524 | .110 |
| 65.14 | 1135 | 1199 | .252 |
| 65.30 | 1137 | 846 | .182 |
| 65.50 | 1140 | 5409 | 1.153 |
| 65.60 | 1141 | 4727 | .994 |
| 65.83 | 1144 | 8427 | 1.773 |
| 66.16 | 1148 | 4274 | .899 |
| 66.28 | 1150 | 1857 | .391 |
| 66.49 | 1153 | 7384 | 1.353 |
| 66.68 | 1155 | 4145 | .872 |
| 66.76 | 1156 | 8671 | 1.824 |
| 66.91 | 1158 | 1207 | .234 |
| 67.05 | 1160 | 8445 | 1.777 |
| 67.20 | 1162 | 2277 | .479 |
| 67.39 | 1164 | 15815 | 3.327 |
| 67.86 | 1170 | 22925 | 4.823 |
| 68.29 | 1176 | 3342 | .703 |
| 68.58 | 1180 | 4319 | .909 |
| 68.72 | 1181 | 5206 | 1.095 |
| 69.01 | 1185 | 12081 | 2.342 |
| 69.34 | 1190 | 5958 | 1.253 |
| 69.49 | 1191 | 4854 | 1.021 |
| 69.67 | 1194 | 6556 | 1.379 |
| 70.14 | 1200 | 72724 | 15.300 \$1200-(KI= 1200)M |
| 70.39 | 1203 | 3368 | .709 |
| 70.55 | 1206 | 3314 | .697 |
| 70.94 | 1211 | 5509 | 1.159 |
| 71.17 | 1214 | 24112 | 5.073 |
| 71.45 | 1218 | 4912 | 1.023 |
| 71.72 | 1222 | 3087 | .649 |
| 71.91 | 1224 | 2088 | .439 |
| 72.16 | 1228 | 5628 | 1.124 |
| 72.59 | 1234 | 11450 | 2.409 |

| | | | |
|--------|------|-------|------------------------------------|
| 72.94 | 1239 | 7101 | 1.494 |
| 73.16 | 1242 | 3328 | .700 |
| 73.43 | 1245 | 2592 | .545 |
| 73.66 | 1249 | 4732 | .996 |
| 73.96 | 1253 | 6520 | 1.372 |
| 74.11 | 1255 | 9723 | 2.046 |
| 74.43 | 1259 | 7507 | 1.579 |
| 74.77 | 1264 | 9739 | 2.049 |
| 75.02 | 1268 | 3599 | .757 |
| 75.22 | 1270 | 6540 | 1.376 |
| 75.43 | 1273 | 19729 | 4.151 |
| 76.11 | 1283 | 10616 | 2.234 |
| 76.34 | 1286 | 1813 | .381 |
| 76.54 | 1289 | 577 | .121 |
| 76.96 | 1294 | 2131 | .448 |
| 77.37 | 1300 | 61407 | 12.919 \$1300-(KI= 1300)M |
| 78.02 | 1310 | 3257 | .685 |
| 78.16 | 1312 | 2245 | .472 |
| 78.60 | 1318 | 3552 | .747 |
| 78.96 | 1323 | 1458 | .307 |
| 79.27 | 1328 | 3454 | .727 |
| 79.65 | 1333 | 2001 | .421 |
| 79.99 | 1338 | 2770 | .583 |
| 80.25 | 1342 | 1047 | .220 |
| 80.61 | 1348 | 1006 | .212 |
| 80.86 | 1351 | 4386 | .923 |
| 81.05 | 1354 | 2199 | .463 |
| 81.38 | 1359 | 3783 | .796 |
| 81.73 | 1364 | 6914 | 1.455 |
| 82.16 | 1370 | 3530 | .753 |
| 82.60 | 1377 | 9993 | 2.102 |
| 83.02 | 1383 | 1856 | .390 |
| 83.40 | 1389 | 1614 | .340 |
| 83.74 | 1393 | 6479 | 1.3 |
| 84.19 | 1400 | 29058 | 6.1. \$1400-(KI= 1400)M |
| 84.44 | 1404 | 1381 | .291 |
| 84.69 | 1408 | 4556 | .958 |
| 84.89 | 1411 | 4357 | .917 |
| 85.05 | 1414 | 1164 | .245 |
| 85.21 | 1416 | 1140 | .240 |
| 85.92 | 1427 | 2288 | .481 |
| 86.13 | 1430 | 704 | .149 |
| 86.38 | 1434 | 557 | .117 |
| 86.96 | 1443 | 1357 | .286 |
| 87.42 | 1450 | 870 | .183 |
| 87.62 | 1454 | 1203 | .253 |
| 87.96 | 1459 | 1620 | .341 |
| 88.21 | 1463 | 7022 | 1.477 |
| 88.73 | 1471 | 1530 | .322 |
| 90.61 | 1500 | 6046 | 1.756 \$1500-(KI= 1500)M |
| 96.68 | 1600 | 1330 | .280 \$1600-(KI= 1600)M |
| 106.22 | 1772 | 32286 | 10.000 &ANTH-d10(IS)(KI=1772) |
| 125.50 | 2118 | 4562 | .960 \$2118-(I,PURITY #3)M |

CORRELATION OF RETENTION TIMES (MIN)

WITH KOVATS INDEX FOR SAMPLE: 607JP4MEC02

PROCESSED DATA FILE: DFP163 RAW DATA FILE: DFR163

| RT | RET. INDEX | AREA | CONC. | NAME |
|-------|------------|----------|--------|-----------------------|
| 1.94 | 377 | 646 | .127 | |
| 2.25 | 388 | 2399 | .472 | |
| 2.60 | 400 | 7594 | 1.495 | \$400-(KI= 400)M |
| 4.30 | 457 | 33257 | 6.549 | |
| 5.55 | 500 | 50615 | 9.967 | \$500-(KI= 500)M |
| 6.36 | 507 | 1009 | .199 | |
| 7.19 | 514 | 1169 | .230 | |
| 7.86 | 520 | 4469 | .880 | |
| 8.60 | 527 | 17987270 | | CH2CL2 SOLVENT |
| 11.22 | 549 | 7936 | 1.563 | |
| 11.51 | 552 | 9633 | 1.897 | |
| 12.22 | 558 | 1118 | .220 | IMPURITY #1-(KI= 558) |
| 12.44 | 560 | 58420 | 11.504 | |
| 14.36 | 577 | 40405 | 7.956 | |
| 17.02 | 600 | 98952 | 19.485 | \$600-(KI= 600)M |
| 18.18 | 611 | 680 | .134 | |
| 18.47 | 614 | 1210 | .238 | |
| 19.61 | 625 | 52494 | 10.337 | |
| 19.85 | 627 | 679 | .134 | |
| 20.39 | 632 | 10125 | 1.994 | |
| 22.52 | 653 | 5859 | 1.154 | |
| 22.85 | 656 | 49745 | 9.796 | |
| 23.14 | 659 | 21015 | 4.138 | |
| 24.21 | 669 | 29375 | 5.784 | |
| 24.35 | 670 | 70773 | 13.936 | |
| 24.77 | 675 | 4308 | .848 | IMPURITY #2-(KI= 674) |
| 25.09 | 678 | 85838 | 16.903 | |
| 25.33 | 680 | 15284 | 3.010 | |
| 25.56 | 682 | 14645 | 2.884 | |
| 25.83 | 685 | 26588 | 5.236 | |
| 25.95 | 686 | 8274 | 1.629 | |
| 27.42 | 700 | 156508 | 30.819 | \$700-(KI= 700)M |
| 27.58 | 702 | 995 | .196 | |
| 27.67 | 705 | 642 | .126 | |
| 28.16 | 708 | 759 | .150 | |
| 28.55 | 712 | 98970 | 19.489 | |
| 28.64 | 716 | 8965 | 1.765 | |
| 29.16 | 719 | 6408 | 1.262 | |
| 29.77 | 726 | 10041 | 1.977 | |

| | | | |
|-------|-----|--------|--------|
| 30.16 | 730 | 14916 | 2.937 |
| 30.24 | 731 | 25136 | 4.950 |
| 30.48 | 734 | 10022 | 1.973 |
| 30.61 | 735 | 9038 | 1.780 |
| 31.17 | 741 | 9672 | 1.905 |
| 31.36 | 743 | 3106 | .612 |
| 31.55 | 745 | 2870 | .565 |
| 31.97 | 750 | 943 | .186 |
| 32.32 | 754 | 3723 | .733 |
| 32.62 | 757 | 26565 | 5.231 |
| 32.77 | 759 | 52640 | 10.366 |
| 33.06 | 762 | 1744 | .343 |
| 33.37 | 765 | 111046 | 21.867 |
| 33.47 | 766 | 43168 | 8.500 |
| 33.49 | 769 | 28991 | 5.689 |
| 33.85 | 771 | 15591 | 3.070 |
| 34.02 | 772 | 125839 | 24.780 |
| 34.27 | 775 | 5162 | 1.016 |
| 34.80 | 781 | 7021 | 1.383 |
| 35.00 | 783 | 4309 | .848 |
| 35.10 | 784 | 8719 | 1.717 |
| 35.33 | 787 | 16018 | 3.154 |
| 35.71 | 791 | 522 | .103 |
| 36.02 | 794 | 3711 | .731 |
| 36.14 | 796 | 8777 | 1.728 |
| 36.53 | 800 | 166851 | 32.856 |
| 36.76 | 803 | 590 | .116 |
| 37.04 | 806 | 781 | .154 |
| 37.17 | 807 | 1504 | .296 |
| 37.33 | 809 | 542 | .107 |
| 37.64 | 812 | 3457 | .681 |
| 37.76 | 814 | 1651 | .325 |
| 38.07 | 817 | 5512 | 1.085 |
| 38.17 | 818 | 4488 | .884 |
| 38.45 | 821 | 12859 | 2.532 |
| 38.71 | 824 | 18426 | 3.629 |
| 38.88 | 826 | 1019 | .201 |
| 39.07 | 828 | 33529 | 6.603 |
| 39.64 | 834 | 38927 | 7.665 |
| 39.87 | 837 | 1459 | .287 |
| 40.21 | 841 | 1300 | .256 |
| 40.38 | 843 | 12781 | 2.517 |
| 40.52 | 844 | 3648 | .718 |
| 40.69 | 846 | 1525 | .300 |
| 40.87 | 848 | 769 | .151 |
| 41.12 | 851 | 521 | .103 |
| 41.29 | 853 | 1061 | .209 |
| 41.44 | 854 | 28462 | 5.605 |
| 41.59 | 856 | 10835 | 2.134 |
| 41.94 | 860 | 6820 | 1.343 |
| 42.13 | 862 | 51743 | 10.189 |
| 42.29 | 864 | 33484 | 6.594 |
| 42.39 | 865 | 39802 | 7.838 |
| 42.61 | 867 | 2208 | .435 |
| 42.80 | 869 | 9167 | 1.805 |
| 42.95 | 871 | 44746 | 8.811 |
| 43.12 | 873 | 2371 | .467 |
| 43.48 | 877 | 2545 | .501 |
| 43.74 | 880 | 17806 | 3.506 |
| 43.88 | 882 | 6996 | 1.378 |
| 44.14 | 884 | 22625 | 4.455 |

| | | | |
|-------|------|--------|--------|
| 44.40 | 887 | 1783 | .351 |
| 44.72 | 891 | 1600 | .315 |
| 44.88 | 893 | 926 | .182 |
| 45.05 | 895 | 2632 | .518 |
| 45.17 | 896 | 2553 | .503 |
| 45.33 | 898 | 5101 | 1.004 |
| 45.55 | 900 | 100743 | 19.838 |
| 46.28 | 908 | 7016 | 1.381 |
| 46.46 | 911 | 4198 | .827 |
| 46.75 | 914 | 2222 | .437 |
| 46.88 | 915 | 1736 | .342 |
| 47.08 | 918 | 9954 | 1.960 |
| 47.29 | 920 | 2761 | .544 |
| 47.51 | 923 | 13267 | 2.613 |
| 47.69 | 925 | 7349 | 1.447 |
| 48.06 | 929 | 11121 | 2.190 |
| 48.45 | 933 | 24460 | 4.817 |
| 48.97 | 939 | 16555 | 3.654 |
| 49.48 | 945 | 8660 | 1.703 |
| 49.66 | 947 | 7875 | 1.551 |
| 50.07 | 952 | 5177 | 1.019 |
| 50.20 | 953 | 9328 | 1.837 |
| 50.39 | 956 | 23208 | 4.964 |
| 50.48 | 957 | 9586 | 1.888 |
| 50.80 | 960 | 6192 | 1.219 |
| 50.94 | 962 | 29763 | 5.861 |
| 51.17 | 965 | 17586 | 3.463 |
| 51.29 | 966 | 2022 | .398 |
| 51.40 | 967 | 7777 | 1.531 |
| 51.71 | 971 | 14730 | 2.901 |
| 51.86 | 973 | 9895 | 1.949 |
| 52.06 | 975 | 934 | .184 |
| 52.23 | 977 | 9417 | 1.854 |
| 52.43 | 979 | 8543 | 1.682 |
| 52.65 | 982 | 3415 | .672 |
| 52.79 | 983 | 1557 | .307 |
| 53.04 | 986 | 44456 | 8.754 |
| 53.28 | 989 | 5330 | 1.050 |
| 53.67 | 993 | 6129 | 1.207 |
| 53.82 | 995 | 1921 | .378 |
| 53.95 | 997 | 1498 | .293 |
| 54.24 | 1000 | 80933 | 15.937 |
| 54.55 | 1004 | 4322 | .851 |
| 54.97 | 1009 | 2038 | .401 |
| 55.37 | 1014 | 20696 | 4.073 |
| 55.63 | 1017 | 5419 | 1.067 |
| 55.89 | 1020 | 989 | .195 |
| 56.11 | 1023 | 16654 | 3.290 |
| 56.35 | 1026 | 13075 | 2.575 |
| 56.57 | 1029 | 8900 | 1.752 |
| 56.83 | 1032 | 5643 | 1.111 |
| 56.98 | 1033 | 2324 | .458 |
| 57.07 | 1035 | 4764 | .938 |
| 57.24 | 1036 | 2224 | .438 |
| 57.40 | 1038 | 5205 | 1.025 |
| 57.57 | 1041 | 1432 | .282 |
| 57.78 | 1043 | 9019 | 1.776 |
| 57.91 | 1045 | 3466 | .682 |
| 58.04 | 1046 | 14119 | 2.780 |
| 58.29 | 1049 | 5845 | 1.151 |
| 58.39 | 1051 | 8705 | 1.714 |

\$900-(KI= 900)M

\$1000-(KI= 1000)M

| | | | |
|-------|------|-------|--------|
| 58.65 | 1054 | 11253 | 2.216 |
| 58.77 | 1055 | 1770 | .349 |
| 58.86 | 1056 | 940 | .185 |
| 58.99 | 1058 | 9715 | 1.913 |
| 59.23 | 1061 | 13547 | 2.668 |
| 59.54 | 1065 | 15316 | 3.016 |
| 59.68 | 1066 | 3767 | .742 |
| 60.03 | 1071 | 20054 | 3.949 |
| 60.21 | 1073 | 11157 | 2.197 |
| 60.72 | 1079 | 19191 | 3.779 |
| 60.94 | 1082 | 5110 | 1.006 |
| 61.16 | 1084 | 5953 | 1.172 |
| 61.39 | 1087 | 3725 | .734 |
| 61.58 | 1089 | 2884 | .568 |
| 61.69 | 1091 | 3097 | .610 |
| 61.94 | 1094 | 1559 | .307 |
| 62.11 | 1096 | 5668 | 1.116 |
| 62.45 | 1100 | 96547 | 19.012 |
| 62.79 | 1104 | 3009 | .592 |
| 62.96 | 1107 | 623 | .123 |
| 63.10 | 1108 | 6458 | 1.272 |
| 63.24 | 1110 | 1911 | .376 |
| 63.41 | 1113 | 12288 | 2.420 |
| 63.66 | 1116 | 10614 | 2.090 |
| 63.81 | 1118 | 4740 | .933 |
| 63.96 | 1120 | 749 | .148 |
| 64.25 | 1123 | 1745 | .344 |
| 64.52 | 1127 | 6571 | 1.294 |
| 64.71 | 1129 | 9585 | 1.888 |
| 64.96 | 1133 | 714 | .141 |
| 65.14 | 1135 | 1287 | .293 |
| 65.31 | 1137 | 947 | .187 |
| 65.50 | 1140 | 6080 | 1.197 |
| 65.60 | 1141 | 4973 | .979 |
| 65.83 | 1144 | 9101 | 1.792 |
| 66.16 | 1148 | 4535 | .893 |
| 66.27 | 1150 | 1988 | .391 |
| 66.49 | 1153 | 7797 | 1.535 |
| 66.68 | 1155 | 4327 | .852 |
| 66.77 | 1156 | 9194 | 1.810 |
| 66.91 | 1158 | 1157 | .228 |
| 67.05 | 1160 | 9849 | 1.743 |
| 67.20 | 1162 | 2218 | .437 |
| 67.39 | 1164 | 16351 | 3.220 |
| 67.87 | 1170 | 15188 | 2.991 |
| 67.93 | 1171 | 8136 | 1.602 |
| 68.29 | 1176 | 1640 | .323 |
| 68.57 | 1180 | 3578 | .705 |
| 68.71 | 1181 | 4886 | .962 |
| 69.02 | 1185 | 11528 | 2.270 |
| 69.35 | 1190 | 5688 | 1.120 |
| 69.49 | 1192 | 4971 | .959 |
| 69.68 | 1194 | 6639 | 1.307 |
| 70.15 | 1200 | 77616 | 15.284 |
| 70.39 | 1203 | 2765 | .545 |
| 70.54 | 1206 | 1703 | .335 |
| 70.93 | 1211 | 3755 | .739 |
| 71.17 | 1214 | 23398 | 4.607 |
| 71.46 | 1218 | 1633 | .321 |
| 71.71 | 1222 | 1516 | .299 |
| 71.90 | 1224 | 1794 | .353 |

*1200-(KI= 1200)M

| | | | |
|--------|------|-------|--------|
| 72.15 | 1229 | 5772 | 1.137 |
| 72.59 | 1234 | 12316 | 2.425 |
| 72.94 | 1239 | 7593 | 1.493 |
| 73.16 | 1242 | 3594 | .708 |
| 73.43 | 1245 | 2767 | .545 |
| 73.64 | 1248 | 5056 | .996 |
| 73.96 | 1253 | 6947 | 1.368 |
| 74.11 | 1255 | 10509 | 2.069 |
| 74.42 | 1259 | 7990 | 1.573 |
| 74.77 | 1264 | 10455 | 2.059 |
| 75.03 | 1268 | 3804 | .749 |
| 75.22 | 1270 | 7024 | 1.383 |
| 75.43 | 1273 | 21112 | 4.157 |
| 76.11 | 1283 | 11383 | 2.242 |
| 76.33 | 1286 | 1936 | .381 |
| 76.95 | 1294 | 2384 | .470 |
| 77.37 | 1300 | 65670 | 12.931 |
| 78.02 | 1310 | 3602 | .709 |
| 78.16 | 1312 | 2355 | .464 |
| 78.48 | 1316 | 1236 | .243 |
| 78.59 | 1318 | 6622 | 1.304 |
| 78.94 | 1323 | 2275 | .448 |
| 79.27 | 1328 | 3793 | .747 |
| 79.64 | 1333 | 2902 | .571 |
| 79.98 | 1338 | 6072 | 1.196 |
| 80.24 | 1342 | 1806 | .356 |
| 80.39 | 1344 | 645 | .127 |
| 80.40 | 1347 | 1042 | .205 |
| 80.84 | 1351 | 4662 | .918 |
| 81.05 | 1354 | 2328 | .458 |
| 81.38 | 1359 | 4304 | .848 |
| 81.73 | 1364 | 6553 | 1.684 |
| 82.16 | 1370 | 4215 | .830 |
| 82.59 | 1377 | 10674 | 2.102 |
| 83.02 | 1383 | 2000 | .394 |
| 83.40 | 1389 | 1728 | .340 |
| 83.72 | 1393 | 7381 | 1.453 |
| 84.18 | 1400 | 32257 | 6.352 |
| 84.43 | 1404 | 1585 | .312 |
| 84.68 | 1408 | 4974 | .960 |
| 84.88 | 1411 | 4546 | .895 |
| 85.05 | 1414 | 1223 | .241 |
| 85.20 | 1416 | 1135 | .224 |
| 85.59 | 1422 | 539 | .106 |
| 85.92 | 1427 | 1448 | .265 |
| 86.11 | 1430 | 696 | .137 |
| 86.37 | 1434 | 606 | .119 |
| 86.93 | 1443 | 1541 | .303 |
| 87.13 | 1446 | 701 | .138 |
| 87.62 | 1454 | 1077 | .212 |
| 87.94 | 1459 | 1767 | .348 |
| 88.20 | 1463 | 7452 | 1.467 |
| 88.72 | 1471 | 1595 | .314 |
| 89.60 | 1500 | 8926 | 1.758 |
| 89.16 | 1600 | 1419 | .279 |
| 106.21 | 1772 | 55861 | 10.000 |
| 125.10 | 2118 | 4711 | .928 |

\$1300-(KI= 1300)M

\$1400-(KI= 1400)M

\$1500-(KI= 1500)M

\$1600-(KI= 1600)M

&ANTH-d10(IS)(KI=1772)

\$2118-(IMPURITY #3)M

ABSOLUTE AMOUNTS (mg/ml) OF FEATURES IN FUEL #607

REPORT: 7.22 CHANNEL: 12

ABSOLUTE AMOUNTS

SAMPLE: 607JP4MEC01 INJECTED AT 5:38:03 ON MAY 24, 1963

ISTD METHOD: DFABME BTL: 13

ACTUAL RUN TIME: 540.000 MINUTES

ISTD-RATIO: 10.000 ms/ml STD-AMT: 10.0000 SAMP-AMT: 1.0000

| RT | AREA | ms/ml | NAME | |
|-------|-------------|--------|------------------------|--------|
| 37.74 | 622 VV | .119 | KI= 377.21 | FE=001 |
| 38.81 | 2270 VV | .434 | KI= 388.01 | FE=002 |
| 40.00 | 7088 BV | 1.356 | \$400-n-C4-ANE1 | FE=003 |
| 45.74 | 31125 VV | 5.953 | KI= 457.61 | FE=004 |
| 50.00 | 47377 VV | 9.061 | \$500-n-C5-ANE1 | FE=005 |
| 50.70 | 678 VV | .130 | KI= 507.01 | FE=006 |
| 51.43 | 1041 VV | .199 | KI= 514.31 | FE=008 |
| 52.02 | 4102 BV | .784 | KI= 520.11 | FE=009 |
| 52.65 | 16843340 ++ | 0.000 | CH2CL2 SOLVENT | |
| 54.90 | 7456 VV | 1.426 | KI= 549.71 | FE=010 |
| 55.17 | 9037 VV | 1.728 | KI= 552.41 | FE=011 |
| 55.79 | 521 VB | .100 | IMPURITY #1(KI= 558.6) | |
| 55.99 | 53562 BV | 10.244 | KI= 560.41 | FE=012 |
| 57.70 | 37693 VV | 7.209 | KI= 577.31 | FE=013 |
| 60.00 | 92429 VV | 17.677 | \$600-n-C6-ANE1 | FE=014 |
| 61.39 | 1153 BB | .221 | KI= 613.91 | FE=017 |
| 62.48 | 49092 VV | 9.389 | KI= 624.81 | FE=018 |
| 62.72 | 569 VB | .109 | KI= 627.31 | FE=019 |
| 63.24 | 9566 BB | 1.830 | KI= 632.41 | FE=020 |
| 65.28 | 5491 VV | 1.050 | KI= 653.01 | FE=021 |
| 65.60 | 46372 BB | 8.869 | KI= 656.11 | FE=022 |
| 65.88 | 19578 BB | 3.744 | KI= 658.81 | FE=023 |
| 66.91 | 27270 BV | 5.216 | KI= 669.01 | FE=024 |
| 67.05 | 65988 VB | 12.621 | KI= 670.41 | FE=025 |
| 67.45 | 3974 VB | .760 | IMPURITY #2(KI= 674.4) | |
| 67.76 | 79920 BV | 15.285 | KI= 677.41 | FE=026 |
| 67.99 | 14215 VV | 2.719 | KI= 679.81 | FE=027 |
| 68.21 | 13623 VV | 2.606 | KI= 682.01 | FE=028 |
| 68.47 | 24739 VV | 4.731 | KI= 684.61 | FE=029 |
| 68.59 | 7681 VB | 1.469 | KI= 685.81 | FE=030 |
| 70.00 | 145618 VV | 27.850 | \$700-n-C7-ANE1 | FE=031 |
| 70.18 | 681 VV | .130 | KI= 701.81 | FE=032 |
| 70.51 | 670 VV | .128 | KI= 705.01 | FE=033 |
| 70.80 | 1028 VB | .197 | KI= 708.01 | FE=035 |
| 71.25 | 92241 VV | 17.642 | KI= 712.51 | FE=036 |
| 71.56 | 8329 VV | 1.593 | KI= 715.61 | FE=037 |
| 71.91 | 5982 BB | 1.144 | KI= 719.11 | FE=038 |
| 72.58 | 9375 BB | 1.793 | KI= 725.81 | FE=039 |
| 73.00 | 13897 BV | 2.658 | KI= 730.01 | FE=040 |
| 73.10 | 23416 VV | 4.479 | KI= 731.01 | FE=041 |
| 73.36 | 9329 VV | 1.784 | KI= 733.61 | FE=042 |
| 73.50 | 8431 VB | 1.613 | KI= 735.01 | FE=043 |
| 74.12 | 9021 BV | 1.725 | KI= 741.21 | FE=044 |

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|-------|---------|------|------------|--------|
| 74.33 | 2881 VV | .551 | KI= 743.31 | FE=045 |
| 74.54 | 2694 VB | .515 | KI= 745.41 | FE=046 |
| 74.99 | 763 BB | .146 | KI= 749.91 | FE=047 |

REPORT: 7.22 (CONTINUED) PAGE: 2 ABSOLUTE AMOUNTS

| RT | AREA | ms/m | NAME | |
|-------|-----------|--------|-----------------|--------|
| 75.39 | 3411 BB | .652 | KI= 753.91 | FE=048 |
| 75.71 | 24650 BV | 4.714 | KI= 757.11 | FE=049 |
| 75.87 | 48979 VV | 9.368 | KI= 759.81 | FE=050 |
| 76.20 | 1641 VB | .314 | KI= 762.01 | FE=051 |
| 76.53 | 103187 BV | 19.735 | KI= 765.31 | FE=052 |
| 76.63 | 40231 VV | 7.694 | KI= 766.41 | FE=053 |
| 76.88 | 26884 VV | 5.142 | KI= 768.81 | FE=054 |
| 77.06 | 14501 VV | 2.773 | KI= 770.61 | FE=055 |
| 77.23 | 117029 VV | 22.382 | KI= 772.41 | FE=056 |
| 77.52 | 4803 VB | .919 | KI= 775.21 | FE=057 |
| 78.10 | 6558 BV | 1.254 | KI= 781.01 | FE=058 |
| 78.31 | 4029 VV | .771 | KI= 783.21 | FE=059 |
| 78.43 | 7339 VV | 1.404 | KI= 784.41 | FE=060 |
| 78.54 | 799 VV | .153 | KI= 785.41 | FE=061 |
| 78.69 | 14981 VB | 2.865 | KI= 786.91 | FE=062 |
| 79.44 | 3437 VV | .657 | KI= 794.41 | FE=064 |
| 79.57 | 8290 VB | 1.586 | KI= 795.71 | FE=065 |
| 80.00 | 155096 BV | 29.663 | \$800-n-C8-ANE: | FE=066 |
| 80.26 | 537 VB | .103 | KI= 802.51 | FE=067 |
| 80.57 | 739 BV | .141 | KI= 805.71 | FE=068 |
| 80.71 | 1407 VV | .269 | KI= 807.11 | FE=069 |
| 80.89 | 519 VB | .099 | KI= 808.91 | FE=070 |
| 81.23 | 3229 BV | .618 | KI= 812.31 | FE=071 |
| 81.36 | 1565 VV | .299 | KI= 813.61 | FE=072 |
| 81.71 | 5224 VV | .999 | KI= 817.01 | FE=073 |
| 81.81 | 4674 VV | .894 | KI= 818.21 | FE=074 |
| 82.13 | 12981 VV | 2.483 | KI= 821.31 | FE=075 |
| 82.42 | 22348 VV | 4.274 | KI= 824.21 | FE=076 |
| 82.52 | 6300 ++ | 1.205 | KI= 825.71 | FE=077 |
| 82.81 | 32506 VV | 6.217 | KI= 828.11 | FE=078 |
| 83.44 | 36176 BV | 6.919 | KI= 834.41 | FE=079 |
| 83.71 | 1359 VB | .260 | KI= 837.01 | FE=080 |
| 84.08 | 1198 BV | .229 | KI= 840.81 | FE=081 |
| 84.27 | 11895 VV | 2.275 | KI= 842.71 | FE=082 |
| 84.43 | 3396 VV | .649 | KI= 844.21 | FE=083 |
| 84.62 | 1433 VV | .274 | KI= 846.21 | FE=084 |
| 84.82 | 719 VB | .137 | KI= 848.21 | FE=085 |
| 85.28 | 988 BV | .189 | KI= 852.81 | FE=087 |
| 85.44 | 26449 VV | 5.059 | KI= 854.41 | FE=088 |
| 85.61 | 10082 VV | 1.928 | KI= 856.11 | FE=089 |
| 86.00 | 6197 VV | 1.185 | KI= 860.01 | FE=090 |
| 86.21 | 47233 VV | 9.034 | KI= 862.21 | FE=091 |
| 86.38 | 31263 VV | 5.963 | KI= 863.81 | FE=092 |
| 86.50 | 36010 VV | 6.887 | KI= 865.01 | FE=093 |
| 86.75 | 837 VB | .160 | KI= 867.41 | FE=094 |
| 86.95 | 7344 BV | 1.405 | KI= 869.51 | FE=095 |
| 87.12 | 40608 VV | 7.766 | KI= 871.21 | FE=096 |
| 87.31 | 1653 VB | .316 | KI= 873.11 | FE=097 |
| 87.71 | 2322 BV | .444 | KI= 877.11 | FE=098 |
| 88.00 | 16570 VV | 3.169 | KI= 880.01 | FE=099 |
| 88.15 | 6426 VV | 1.229 | KI= 881.61 | FE=100 |
| 88.45 | 20997 VV | 4.016 | KI= 884.51 | FE=102 |
| 88.73 | 1646 VB | .315 | KI= 887.41 | FE=103 |

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|-------|---------|------|------------|--------|
| 89.09 | 1460 BV | .279 | KI= 890.91 | FE=104 |
| 89.26 | 824 VV | .158 | KI= 892.61 | FE=105 |
| 89.46 | 2364 VV | .452 | KI= 894.61 | FE=106 |

REPORT: 7.22 (CONTINUED) PAGE: 3 ABSOLUTE AMOUNTS

| RT | AREA | ms/ml | NAME | |
|--------|----------|--------|-------------------|--------|
| 89.59 | 2304 VV | .441 | KI= 895.91 | FE=107 |
| 89.76 | 4588 VV | .878 | KI= 897.61 | FE=108 |
| 90.00 | 92413 VV | 17.674 | \$900-n-C9-ANE1 | FE=109 |
| 90.13 | 756 VB | .145 | KI= 901.31 | FE=110 |
| 90.84 | 6545 BV | 1.252 | KI= 908.41 | FE=112 |
| 91.08 | 3850 VB | .736 | KI= 910.81 | FE=113 |
| 91.39 | 2051 BV | .392 | KI= 913.91 | FE=114 |
| 91.53 | 1641 VV | .314 | KI= 915.41 | FE=115 |
| 91.79 | 9214 VV | 1.762 | KI= 917.71 | FE=116 |
| 92.00 | 2564 VV | .490 | KI= 920.11 | FE=117 |
| 92.26 | 12322 VV | 2.357 | KI= 922.61 | FE=118 |
| 92.47 | 6797 VV | 1.300 | KI= 924.71 | FE=119 |
| 92.91 | 10281 VV | 1.966 | KI= 929.11 | FE=120 |
| 93.35 | 22647 VV | 4.331 | KI= 933.51 | FE=122 |
| 93.95 | 17165 VV | 3.283 | KI= 939.41 | FE=123 |
| 94.53 | 8016 VV | 1.533 | KI= 945.31 | FE=125 |
| 94.74 | 7281 VV | 1.393 | KI= 947.41 | FE=126 |
| 95.21 | 4675 VV | .894 | KI= 952.01 | FE=127 |
| 95.35 | 8297 VV | 1.587 | KI= 953.51 | FE=128 |
| 95.58 | 23100 VV | 4.418 | KI= 955.81 | FE=129 |
| 95.68 | 7612 VV | 1.456 | KI= 956.81 | FE=130 |
| 96.05 | 4613 VV | .882 | KI= 960.51 | FE=131 |
| 96.21 | 24681 VV | 4.720 | KI= 962.11 | FE=132 |
| 96.47 | 11912 VV | 2.278 | KI= 964.71 | FE=133 |
| 96.74 | 2788 BV | .533 | KI= 967.41 | FE=135 |
| 97.09 | 13040 VV | 2.494 | KI= 970.81 | FE=136 |
| 97.27 | 8641 VV | 1.653 | KI= 972.71 | FE=137 |
| 97.49 | 566 VV | .108 | KI= 974.91 | FE=138 |
| 97.69 | 8183 VV | 1.565 | KI= 976.91 | FE=139 |
| 97.92 | 7379 VV | 1.411 | KI= 979.21 | FE=140 |
| 98.17 | 2919 VV | .558 | KI= 981.71 | FE=142 |
| 98.32 | 1163 VV | .222 | KI= 983.31 | FE=143 |
| 98.62 | 40786 VV | 7.801 | KI= 986.21 | FE=144 |
| 98.89 | 4594 VV | .879 | KI= 989.01 | FE=145 |
| 99.35 | 5288 VV | 1.011 | KI= 993.51 | FE=146 |
| 99.53 | 1623 VV | .310 | KI= 995.31 | FE=147 |
| 99.68 | 1326 VV | .254 | KI= 996.81 | FE=148 |
| 100.00 | 74820 VV | 14.310 | \$1000-n-C10-ANE1 | FE=149 |
| 100.39 | 3959 VB | .757 | KI= 1003.91 | FE=150 |
| 100.89 | 2434 BV | .465 | KI= 1009.01 | FE=151 |
| 101.18 | 531 VV | .102 | | |
| 101.39 | 21753 VV | 4.160 | KI= 1013.91 | FE=152 |
| 101.70 | 8262 VV | 1.580 | KI= 1017.01 | FE=153 |
| 101.92 | 2802 VV | .536 | KI= 1019.31 | FE=154 |
| 102.01 | 4011 VV | .767 | KI= 1020.11 | FE=155 |
| 102.29 | 17275 VV | 3.304 | KI= 1022.91 | FE=156 |
| 102.58 | 12569 VV | 2.404 | KI= 1025.81 | FE=157 |
| 102.84 | 8609 VV | 1.647 | KI= 1028.41 | FE=158 |
| 103.16 | 5575 VV | 1.066 | KI= 1031.61 | FE=159 |
| 103.33 | 2229 VV | .426 | KI= 1033.41 | FE=160 |
| 103.46 | 4682 VV | .896 | KI= 1034.61 | FE=161 |
| 103.66 | 2217 VV | .424 | KI= 1036.61 | FE=162 |
| 103.85 | 5024 VV | .961 | KI= 1038.51 | FE=163 |

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|--------|------|----|-------|------------|--------|
| 104.06 | 1489 | VV | .285 | KI=1040.6: | FE=164 |
| 104.32 | 8529 | VV | 1.631 | KI=1043.2: | FE=165 |
| 104.47 | 3341 | VV | .639 | KI=1044.7: | FE=166 |

REPORT: 7.22 (CONTINUED) PAGE: 4 ABSOLUTE AMOUNTS

| RT | AREA | ms/ml | NAME | |
|--------|-------|-------|--------|-------------------------|
| 104.64 | 13268 | VV | 2.538 | KI=1046.4: |
| 104.94 | 5265 | VV | 1.007 | KI=1049.4: |
| 105.06 | 8487 | VV | 1.623 | KI=1050.6: |
| 105.38 | 10556 | VV | 2.019 | KI=1053.8: |
| 105.52 | 2543 | VV | .486 | KI=1055.3: |
| 105.79 | 9084 | VV | 1.737 | KI=1057.9: |
| 106.08 | 12550 | VV | 2.400 | KI=1060.8: |
| 106.46 | 14265 | VV | 2.728 | KI=1064.6: |
| 106.62 | 3483 | VV | .666 | KI=1066.2: |
| 107.06 | 18570 | VV | 3.552 | KI=1070.6: |
| 107.27 | 10455 | VV | 2.000 | KI=1072.8: |
| 107.90 | 17833 | VV | 3.411 | KI=1079.0: |
| 108.16 | 4786 | VV | .915 | KI=1081.6: |
| 108.43 | 5634 | VV | 1.078 | KI=1084.3: |
| 108.71 | 3408 | VV | .12 | KI=1087.2: |
| 108.94 | 2634 | VV | .504 | KI=1089.4: |
| 109.08 | 2966 | VV | .567 | KI=1090.8: |
| 109.38 | 1467 | VV | .281 | KI=1093.8: |
| 109.59 | 5306 | VV | 1.015 | KI=1096.0: |
| 110.00 | 89668 | VV | 17.150 | \$1100-n-C11-ANE:FE=187 |
| 110.45 | 2834 | VV | .542 | KI=1104.4: |
| 110.66 | 591 | VV | .113 | KI=1106.6: |
| 110.84 | 5976 | VV | 1.143 | KI=1108.4: |
| 111.03 | 1833 | VV | .351 | KI=1110.3: |
| 111.25 | 11318 | VV | 2.165 | KI=1112.6: |
| 111.57 | 9839 | VV | 1.882 | KI=1115.8: |
| 111.77 | 4571 | VV | .874 | KI=1117.7: |
| 111.97 | 695 | VV | .133 | KI=1119.7: |
| 112.34 | 1594 | BV | .305 | KI=1123.4: |
| 112.70 | 6074 | VV | 1.162 | KI=1127.0: |
| 112.94 | 8886 | VV | 1.699 | KI=1129.4: |
| 113.26 | 524 | BV | .100 | KI=1132.7: |
| 113.50 | 1199 | BV | .229 | KI=1135.0: |
| 113.71 | 866 | VV | .166 | KI=1137.1: |
| 113.97 | 5489 | VV | 1.050 | KI=1139.7: |
| 114.10 | 4727 | VV | .904 | KI=1141.0: |
| 114.40 | 8427 | VV | 1.612 | KI=1144.0: |
| 114.83 | 4274 | VV | .817 | KI=1148.3: |
| 114.98 | 1857 | VV | .355 | KI=1149.8: |
| 115.26 | 7384 | VV | 1.412 | KI=1152.6: |
| 115.50 | 4145 | VV | .793 | KI=1155.0: |
| 115.61 | 8671 | VV | 1.658 | KI=1156.1: |
| 115.80 | 1207 | VV | .231 | KI=1158.0: |
| 115.98 | 8445 | VV | 1.615 | KI=1159.8: |
| 116.17 | 2277 | VV | .436 | KI=1161.8: |
| 116.42 | 15815 | VV | 3.025 | KI=1164.2: |
| 117.04 | 22925 | VV | 4.384 | KI=1170.4: |
| 117.58 | 3342 | VV | .639 | KI=1175.9: |
| 117.96 | 4319 | VV | .826 | KI=1179.7: |
| 118.15 | 5206 | VV | .996 | KI=1181.4: |
| 118.53 | 12081 | VV | 2.311 | KI=1185.3: |
| 118.96 | 5958 | VV | 1.139 | KI=1189.6: |
| 119.15 | 4854 | VV | .928 | KI=1191.5: |
| | | | | FE=224 |

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|--------|----------|--------|-------------------|--------|
| 119.39 | 6556 VV | 1.254 | KI=1193.9; | FE=225 |
| 120.00 | 72724 VV | 13.909 | \$1200-n-C12-ANE; | FE=227 |
| 120.34 | 3368 VV | .644 | KI=1203.4; | FE=228 |

REPORT: 7.22 (CONTINUED) PAGE: 5 ABSOLUTE AMOUNTS

| RT | AREA | mg/ml | NAME | |
|--------|----------|--------|-------------------|--------|
| 120.56 | 3314 VV | .634 | KI=1205.6; | FE=229 |
| 121.10 | 5509 VV | 1.054 | KI=1210.9; | FE=231 |
| 121.42 | 24112 VV | 4.612 | KI=1214.2; | FE=232 |
| 121.81 | 4912 VV | .939 | KI=1218.2; | FE=233 |
| 122.18 | 3087 VV | .590 | KI=1221.7; | FE=235 |
| 122.44 | 2088 VV | .399 | KI=1224.3; | FE=236 |
| 122.79 | 5628 VV | 1.076 | KI=1227.8; | FE=237 |
| 123.38 | 11450 VV | 2.190 | KI=1233.9; | FE=238 |
| 123.87 | 7101 VV | 1.358 | KI=1238.6; | FE=239 |
| 124.17 | 3328 VV | .637 | KI=1241.7; | FE=240 |
| 124.54 | 2592 VV | .496 | KI=1245.4; | FE=241 |
| 124.86 | 4732 VV | .905 | KI=1248.5; | FE=242 |
| 125.28 | 6520 VV | 1.247 | KI=1252.8; | FE=243 |
| 125.48 | 9723 VV | 1.860 | KI=1254.8; | FE=244 |
| 125.93 | 7507 VV | 1.436 | KI=1259.3; | FE=245 |
| 126.40 | 9739 VV | 1.863 | KI=1264.0; | FE=246 |
| 126.76 | 3599 VV | .688 | KI=1267.6; | FE=247 |
| 127.03 | 6540 VV | 1.251 | KI=1270.2; | FE=248 |
| 127.32 | 19729 VV | 3.773 | KI=1273.1; | FE=249 |
| 128.26 | 10616 BV | 2.030 | KI=1282.7; | FE=253 |
| 128.57 | 1813 VV | .347 | KI=1285.6; | FE=254 |
| 128.85 | 577 VV | .110 | KI=1288.3; | FE=255 |
| 129.43 | 2131 BV | .408 | KI=1294.2; | FE=256 |
| 130.00 | 61407 VV | 11.744 | \$1300-n-C13-ANE; | FE=257 |
| 130.96 | 3257 BV | .623 | KI=1309.6; | FE=259 |
| 131.17 | 2245 VB | .429 | KI=1311.5; | FE=260 |
| 131.80 | 3552 BV | .679 | KI=1318.0; | FE=262 |
| 132.33 | 1458 VV | .279 | KI=1323.1; | FE=263 |
| 132.80 | 3454 VV | .661 | KI=1328.0; | FE=264 |
| 133.34 | 2000 VV | .383 | KI=1333.4; | FE=265 |
| 133.84 | 2770 BV | .530 | KI=1338.4; | FE=266 |
| 134.23 | 1047 VV | .200 | KI=1342.2; | FE=267 |
| 134.76 | 1006 VV | .192 | KI=1347.5; | FE=269 |
| 135.12 | 4386 VV | .839 | KI=1351.1; | FE=270 |
| 135.40 | 2199 VV | .421 | KI=1354.0; | FE=271 |
| 135.89 | 3783 VB | .724 | KI=1358.9; | FE=272 |
| 136.40 | 6916 BB | 1.323 | KI=1364.0; | FE=273 |
| 137.03 | 3580 BV | .685 | KI=1370.3; | FE=274 |
| 137.67 | 9993 BB | 1.911 | KI=1376.7; | FE=275 |
| 138.29 | 1856 BB | .355 | KI=1383.0; | FE=276 |
| 138.85 | 1614 BV | .309 | KI=1388.6; | FE=277 |
| 139.34 | 6479 VV | 1.239 | KI=1393.4; | FE=278 |
| 140.00 | 29058 BV | 5.558 | \$1400-n-C14-ANE; | FE=279 |
| 140.40 | 1381 VV | .264 | KI=1404.0; | FE=280 |
| 140.78 | 4556 VV | .871 | KI=1407.9; | FE=281 |
| 141.10 | 4357 VV | .833 | KI=1411.1; | FE=282 |
| 141.35 | 1164 VV | .223 | KI=1413.6; | FE=283 |
| 141.60 | 1140 VB | .218 | | |
| 142.71 | 2288 BV | .438 | KI=1427.2; | FE=286 |
| 143.03 | 706 VB | .135 | KI=1430.3; | FE=287 |
| 143.41 | 557 BB | .107 | KI=1434.1; | FE=288 |
| 144.31 | 1357 BV | .260 | KI=1443.2; | FE=289 |
| 145.04 | 869 VV | .166 | KI=1450.5; | FE=291 |

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|--------|---------|-------|------------|--------|
| 145.35 | 1203 VV | .230 | KI=1453.4; | FE=292 |
| 145.88 | 1620 VV | .310 | KI=1458.7; | FE=293 |
| 146.27 | 7022 VB | 1.343 | KI=1462.7; | FE=294 |

REPORT: 7.22 (CONTINUED) PAGE: 6 ABSOLUTE AMOUNTS

| RT | AREA | mg/ml | NAME |
|--------|----------|-------|-------------------------|
| 147.08 | 1530 BB | .293 | KI=1470.7; FE=295 |
| 150.00 | 8346 BB | 1.596 | \$1500-n-C15-ANE;FE=296 |
| 160.00 | 1330 BB | .254 | \$1600-n-C16-ANE;FE=297 |
| 177.16 | 52286 BB | | &ANTH-d10(IS)(KI=1772) |
| 211.80 | 4562 BB | .872 | \$2118-(IMPURITY #3) |

TOTAL AREA = 20338780 TOTAL mg/ml = 658.520

PROCESSED DATA FILE: BKP162 RAW DATA FILE: DFR162

REPORT: 8.42 CHANNEL: 12

ABSOLUTE AMOUNTS

SAMPLE: 607JP4MEC02 INJECTED AT 8:13:53 ON MAY 24, 1983

ISTD METHOD: DFABME BTL: 13

ACTUAL RUN TIME: 540.000 MINUTES

ISTD-RATIO: 10.000 ms/ml STD-AMT: 10.0000 SAMP-AMT: 1.0000

| RT | AREA | ms/ml | NAME | |
|-------|-------------|--------|------------------------|--------|
| 37.74 | 646 VV | .116 | KI= 377.2; | FE=001 |
| 38.81 | 2399 VV | .429 | KI= 388.0; | FE=002 |
| 40.00 | 7594 VV | 1.359 | \$400-n-C4-ANE; | FE=003 |
| 45.74 | 33257 VV | 5.953 | KI= 457.6; | FE=004 |
| 50.00 | 50615 VV | 9.061 | \$500-n-C5-ANE; | FE=005 |
| 50.70 | 1009 VV | .181 | KI= 507.0; | FE=006 |
| 51.43 | 1169 VV | .209 | KI= 514.3; | FE=008 |
| 52.01 | 4469 VV | .800 | KI= 520.1; | FE=009 |
| 52.66 | 17987276 ++ | 0.000 | CH2CL2 SOLVENT | |
| 54.94 | 7936 VV | 1.421 | KI= 549.7; | FE=010 |
| 55.20 | 9633 VV | 1.724 | KI= 552.4; | FE=011 |
| 55.81 | 1118 BV | .200 | IMPURITY #1(KI= 558.6) | |
| 56.00 | 58420 VV | 10.458 | KI= 560.4; | FE=012 |
| 57.68 | 40405 VV | 7.233 | KI= 577.3; | FE=013 |
| 60.00 | 98952 VV | 17.714 | \$600-n-C6-ANE; | FE=014 |
| 61.12 | 680 BB | .122 | KI= 611.2; | FE=016 |
| 61.40 | 1210 BV | .217 | KI= 613.9; | FE=017 |
| 62.48 | 52494 VV | 9.397 | KI= 624.8; | FE=018 |
| 62.72 | 679 VB | .122 | KI= 627.3; | FE=019 |
| 63.24 | 10125 BV | 1.813 | KI= 632.4; | FE=020 |
| 65.29 | 5859 BV | 1.049 | KI= 653.0; | FE=021 |
| 65.60 | 49745 BB | 8.905 | KI= 656.1; | FE=022 |
| 65.88 | 21015 BB | 3.762 | KI= 658.8; | FE=023 |
| 66.91 | 29375 VV | 5.258 | KI= 669.0; | FE=024 |
| 67.05 | 70773 VB | 12.669 | KI= 670.4; | FE=025 |
| 57.45 | 4308 BV | .771 | IMPURITY #2(KI= 674.4) | |
| 67.76 | 85638 VV | 15.366 | KI= 677.4; | FE=026 |
| 67.99 | 15284 VV | 2.736 | KI= 679.8; | FE=027 |
| 68.21 | 14645 VV | 2.622 | KI= 682.0; | FE=028 |
| 68.47 | 26588 VV | 4.760 | KI= 684.6; | FE=029 |
| 68.59 | 8274 VB | 1.481 | KI= 685.8; | FE=030 |
| 70.00 | 156508 BV | 28.017 | \$700-n-C7-ANE; | FE=031 |
| 70.18 | 995 VV | .178 | KI= 701.8; | FE=032 |
| 70.50 | 642 BV | .115 | KI= 705.0; | FE=033 |
| 70.81 | 759 BB | .136 | KI= 708.0; | FE=035 |
| 71.25 | 98970 BV | 17.717 | KI= 712.5; | FE=036 |
| 71.56 | 8965 VB | 1.605 | KI= 715.6; | FE=037 |
| 71.91 | 6408 BB | 1.147 | KI= 719.1; | FE=038 |
| 72.57 | 10041 BB | 1.797 | KI= 725.8; | FE=039 |
| 73.00 | 14916 BV | 2.670 | KI= 730.0; | FE=040 |
| 73.09 | 25136 VV | 4.500 | KI= 731.0; | FE=041 |
| 73.36 | 10022 VV | 1.794 | KI= 733.6; | FE=042 |
| 73.50 | 9038 VB | 1.618 | KI= 735.0; | FE=043 |

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|-------|---------|-------|------------|--------|
| 74.12 | 9672 BV | 1.731 | KI= 741.2; | FE=044 |
| 74.33 | 3106 VV | .556 | KI= 743.3; | FE=045 |
| 74.53 | 2870 VB | .514 | KI= 745.4; | FE=046 |

REPORT: 8.42 (CONTINUED) PAGE: 2 ABSOLUTE AMOUNTS

| RT | AREA | ms/ml | NAME | |
|-------|-----------|--------|-----------------|--------|
| 74.99 | 943 BB | .169 | KI= 749.9; | FE=047 |
| 75.38 | 3723 BV | .666 | KI= 753.9; | FE=048 |
| 75.71 | 26565 VV | 4.756 | KI= 757.1; | FE=049 |
| 75.87 | 52640 VV | 9.423 | KI= 758.8; | FE=050 |
| 76.19 | 1744 VB | .312 | KI= 762.0; | FE=051 |
| 76.53 | 111046 BV | 19.879 | KI= 765.3; | FE=052 |
| 76.64 | 43168 VV | 7.728 | KI= 766.4; | FE=053 |
| 76.88 | 28991 VV | 5.172 | KI= 768.8; | FE=054 |
| 77.06 | 15591 VV | 2.791 | KI= 770.6; | FE=055 |
| 77.24 | 125839 VV | 22.527 | KI= 772.4; | FE=056 |
| 77.52 | 5162 VB | .924 | KI= 775.2; | FE=057 |
| 78.10 | 7021 BV | 1.257 | KI= 781.0; | FE=058 |
| 78.31 | 4309 VV | .771 | KI= 783.2; | FE=059 |
| 78.43 | 8719 VV | 1.561 | KI= 784.4; | FE=060 |
| 78.68 | 16018 VB | 2.867 | KI= 786.9; | FE=061 |
| 79.10 | 522 BV | .093 | KI= 791.1; | FE=063 |
| 79.44 | 3711 VV | .664 | KI= 794.4; | FE=064 |
| 79.56 | 8777 VV | 1.571 | KI= 795.7; | FE=065 |
| 80.00 | 166851 BV | 29.869 | \$800-n-C8-ANE; | FE=066 |
| 80.25 | 590 VB | .106 | KI= 802.5; | FE=067 |
| 80.56 | 781 BV | .140 | KI= 805.7; | FE=068 |
| 80.71 | 1504 VV | .269 | KI= 807.1; | FE=069 |
| 80.88 | 542 VB | .097 | KI= 808.9; | FE=070 |
| 81.23 | 3457 BV | .619 | KI= 812.3; | FE=071 |
| 81.36 | 1651 VB | .296 | KI= 813.6; | FE=072 |
| 81.70 | 5512 BV | .987 | KI= 817.0; | FE=073 |
| 81.81 | 4488 VV | .803 | KI= 818.2; | FE=074 |
| 82.13 | 12859 VV | 2.302 | KI= 821.3; | FE=075 |
| 82.41 | 18428 VV | 3.299 | KI= 824.2; | FE=076 |
| 82.60 | 1019 BV | .182 | KI= 825.7; | FE=077 |
| 82.81 | 33529 VV | 6.002 | KI= 828.1; | FE=078 |
| 83.44 | 38927 BV | 6.968 | KI= 834.4; | FE=079 |
| 83.70 | 1459 VB | .261 | KI= 837.0; | FE=080 |
| 84.08 | 1300 BV | .233 | KI= 840.8; | FE=081 |
| 84.26 | 12781 VV | 2.288 | KI= 842.7; | FE=082 |
| 84.42 | 3648 VV | .653 | KI= 844.2; | FE=083 |
| 84.62 | 1524 VV | .273 | KI= 846.2; | FE=084 |
| 84.82 | 769 VB | .138 | KI= 848.2; | FE=085 |
| 85.09 | 521 BB | .093 | KI= 850.9; | FE=086 |
| 85.28 | 1061 BV | .190 | KI= 852.8; | FE=087 |
| 85.44 | 28462 VV | 5.095 | KI= 854.4; | FE=088 |
| 85.61 | 10835 VV | 1.940 | KI= 856.1; | FE=089 |
| 86.00 | 6820 VV | 1.221 | KI= 860.0; | FE=090 |
| 86.21 | 51743 VV | 9.263 | KI= 862.2; | FE=091 |
| 86.38 | 33484 VV | 5.994 | KI= 863.3; | FE=092 |
| 86.50 | 39802 VV | 7.125 | KI= 865.0; | FE=093 |
| 86.74 | 2208 VV | .395 | KI= 867.4; | FE=094 |
| 86.95 | 9167 VV | 1.641 | KI= 869.5; | FE=095 |
| 87.12 | 44746 VV | 8.010 | KI= 871.2; | FE=096 |
| 87.31 | 2371 VV | .424 | KI= 873.1; | FE=097 |
| 87.71 | 2545 VV | .456 | KI= 877.1; | FE=098 |
| 87.99 | 17806 VV | 3.188 | KI= 880.0; | FE=099 |
| 88.15 | 6996 VV | 1.252 | KI= 881.6; | FE=100 |

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|-------|----------|-------|------------|--------|
| 88.44 | 22625 VV | 4.050 | KI= 884.5; | FE=102 |
| 88.73 | 1783 VB | .319 | KI= 887.4; | FE=103 |
| 89.08 | 1600 BV | .286 | KI= 890.9; | FE=104 |

REPORT: 8.42 (CONTINUED) PAGE: 3 ABSOLUTE AMOUNTS

| RT | AREA | ms/m1 | NAME | |
|--------|-----------|--------|-------------------|--------|
| 89.26 | 926 VV | .166 | KI= 892.6; | FE=105 |
| 89.45 | 2632 VV | .471 | KI= 894.6; | FE=106 |
| 89.59 | 2553 VV | .457 | KI= 895.9; | FE=107 |
| 89.76 | 5101 VV | .913 | KI= 897.6; | FE=108 |
| 90.00 | 100743 VV | 18.034 | \$900-n-C9-ANE; | FE=109 |
| 90.84 | 7016 VV | 1.256 | KI= 908.4; | FE=112 |
| 91.08 | 4198 VB | .751 | KI= 910.8; | FE=113 |
| 91.39 | 2222 BV | .398 | KI= 913.9; | FE=114 |
| 91.53 | 1736 VV | .311 | KI= 915.4; | FE=115 |
| 91.76 | 9954 VV | 1.782 | KI= 917.7; | FE=116 |
| 92.00 | 2761 VV | .494 | KI= 920.1; | FE=117 |
| 92.26 | 13267 VV | 2.375 | KI= 922.6; | FE=118 |
| 92.47 | 7349 VV | 1.316 | KI= 924.7; | FE=119 |
| 92.91 | 11121 VV | 1.991 | KI= 929.1; | FE=120 |
| 93.35 | 24460 VV | 4.379 | KI= 933.5; | FE=122 |
| 93.94 | 18555 VV | 3.322 | KI= 939.4; | FE=123 |
| 94.52 | 8660 VV | 1.550 | KI= 945.3; | FE=125 |
| 94.74 | 7875 VB | 1.410 | KI= 947.4; | FE=126 |
| 95.20 | 5177 BV | .927 | KI= 952.0; | FE=127 |
| 95.35 | 9328 VV | 1.670 | KI= 953.5; | FE=128 |
| 95.57 | 25208 VV | 4.513 | KI= 955.8; | FE=129 |
| 95.68 | 9586 VV | 1.716 | KI= 956.8; | FE=130 |
| 96.04 | 6192 VV | 1.109 | KI= 960.5; | FE=131 |
| 96.21 | 29763 VV | 5.328 | KI= 962.1; | FE=132 |
| 96.47 | 17536 VV | 3.148 | KI= 964.7; | FE=133 |
| 96.60 | 2022 VV | .362 | KI= 966.1; | FE=134 |
| 96.74 | 777 VV | 1.392 | KI= 967.4; | FE=135 |
| 97.08 | 14730 VV | 2.637 | KI= 970.8; | FE=136 |
| 97.27 | 9895 VV | 1.771 | KI= 972.7; | FE=137 |
| 97.49 | 934 VV | .167 | KI= 974.9; | FE=138 |
| 97.69 | 9417 VV | 1.686 | KI= 976.9; | FE=139 |
| 97.92 | 8543 VV | 1.529 | KI= 979.2; | FE=140 |
| 98.16 | 3415 VV | .611 | KI= 981.7; | FE=142 |
| 98.33 | 1557 VV | .279 | KI= 983.3; | FE=143 |
| 98.62 | 44456 VV | 7.958 | KI= 986.2; | FE=144 |
| 98.90 | 5330 VV | .954 | KI= 989.0; | FE=145 |
| 99.35 | 6129 VV | 1.097 | KI= 993.5; | FE=146 |
| 99.52 | 1921 VV | .344 | KI= 995.3; | FE=147 |
| 99.67 | 1498 VV | .268 | KI= 996.8; | FE=148 |
| 100.00 | 80933 VV | 14.488 | \$1000-n-C10-ANE; | FE=149 |
| 100.38 | 4322 VB | .774 | KI=1003.9; | FE=150 |
| 100.89 | 2038 BV | .365 | KI=1009.0; | FE=151 |
| 101.38 | 20696 VV | 3.705 | KI=1013.9; | FE=152 |
| 101.70 | 5419 VV | .970 | KI=1017.0; | FE=153 |
| 102.01 | 989 BV | .177 | KI=1020.1; | FE=155 |
| 102.28 | 16654 VV | 2.981 | KI=1022.9; | FE=156 |
| 102.57 | 13075 VV | 2.341 | KI=1025.8; | FE=157 |
| 102.83 | 8900 VV | 1.593 | KI=1028.4; | FE=158 |
| 103.16 | 5643 VV | 1.010 | KI=1031.6; | FE=159 |
| 103.33 | 2324 VV | .416 | KI=1033.4; | FE=160 |
| 103.45 | 4764 VV | .853 | KI=1034.6; | FE=161 |
| 103.45 | 2224 VV | .398 | KI=1036.6; | FE=162 |
| 103.85 | 5205 VV | .932 | KI=1038.5; | FE=163 |

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|--------|------|----|-------|------------|--------|
| 104.06 | 1432 | VV | .256 | KI=1040.6; | FE=164 |
| 104.32 | 9019 | VV | 1.614 | KI=1043.2; | FE=165 |
| 104.47 | 3466 | VV | .620 | KI=1044.7; | FE=166 |

REPORT: 8.42 (CONTINUED) PAGE: 4 ABSOLUTE AMOUNTS

| RT | AREA | | ms/m ³ | NAME | |
|--------|-------|----|-------------------|------------------|--------|
| 104.63 | 14119 | VV | 2.528 | KI=1046.4; | FE=167 |
| 104.94 | 5845 | VV | 1.046 | KI=1049.4; | FE=168 |
| 105.06 | 8705 | VV | 1.558 | KI=1050.6; | FE=169 |
| 105.37 | 11253 | VV | 2.014 | KI=1053.8; | FE=170 |
| 105.52 | 1770 | VV | .317 | KI=1055.3; | FE=171 |
| 105.62 | 940 | VV | .168 | | |
| 105.79 | 9715 | VV | 1.739 | KI=1057.9; | FE=173 |
| 106.08 | 13547 | VV | 2.425 | KI=1060.8; | FE=174 |
| 106.45 | 15316 | VV | 2.742 | KI=1064.6; | FE=175 |
| 106.62 | 3767 | VV | .674 | KI=1066.2; | FE=176 |
| 107.06 | 20054 | VV | 3.590 | KI=1070.6; | FE=177 |
| 107.27 | 11157 | VV | 1.997 | KI=1072.8; | FE=178 |
| 107.90 | 19191 | VV | 3.436 | KI=1079.0; | FE=179 |
| 108.16 | 5110 | VV | .915 | KI=1081.6; | FE=180 |
| 108.43 | 5953 | VV | 1.066 | KI=1084.3; | FE=181 |
| 108.71 | 3725 | VV | .667 | KI=1087.2; | FE=182 |
| 108.94 | 2884 | VV | .516 | KI=1089.4; | FE=183 |
| 109.07 | 3097 | VV | .554 | KI=1090.8; | FE=184 |
| 109.39 | 1559 | VV | .279 | KI=1093.8; | FE=185 |
| 109.59 | 5668 | VV | 1.015 | KI=1096.0; | FE=186 |
| 110.00 | 96547 | VV | 17.283 | \$1100-n-C11-ANE | FE=187 |
| 110.44 | 3009 | VV | .539 | KI=1104.4; | FE=189 |
| 110.66 | 623 | VV | .112 | KI=1106.6; | FE=190 |
| 110.84 | 6458 | VV | 1.156 | KI=1108.4; | FE=191 |
| 111.02 | 1911 | VV | .342 | KI=1110.3; | FE=192 |
| 111.25 | 12288 | VV | 2.200 | KI=1112.6; | FE=193 |
| 111.57 | 10614 | VV | 1.900 | KI=1115.8; | FE=194 |
| 111.77 | 4740 | VV | .849 | KI=1117.7; | FE=195 |
| 111.97 | 749 | VV | .134 | KI=1119.7; | FE=196 |
| 112.34 | 1745 | BV | .312 | KI=1123.4; | FE=198 |
| 112.70 | 6571 | VV | 1.176 | KI=1127.0; | FE=199 |
| 112.94 | 9585 | VV | 1.716 | KI=1129.4; | FE=200 |
| 113.26 | 714 | VV | .128 | KI=1132.7; | FE=201 |
| 113.50 | 1286 | BV | .230 | KI=1135.0; | FE=203 |
| 113.72 | 947 | VV | .170 | KI=1137.1; | FE=204 |
| 113.97 | 6080 | VV | 1.088 | KI=1139.7; | FE=205 |
| 114.09 | 4973 | VV | .890 | KI=1141.0; | FE=206 |
| 114.40 | 9101 | VV | 1.629 | KI=1144.0; | FE=207 |
| 114.83 | 4535 | VV | .812 | KI=1148.3; | FE=208 |
| 114.97 | 1988 | VV | .356 | KI=1149.8; | FE=209 |
| 115.25 | 7797 | VV | 1.396 | KI=1152.6; | FE=210 |
| 115.49 | 4327 | VV | .775 | KI=1155.0; | FE=211 |
| 115.61 | 9194 | VV | 1.646 | KI=1156.1; | FE=212 |
| 115.80 | 1157 | VV | .207 | KI=1158.0; | FE=213 |
| 115.98 | 8849 | VV | 1.584 | KI=1159.8; | FE=214 |
| 116.17 | 2218 | VV | .397 | KI=1161.8; | FE=215 |
| 116.41 | 16351 | VV | 2.927 | KI=1164.2; | FE=216 |
| 117.04 | 15188 | VV | 2.719 | KI=1170.4; | FE=217 |
| 117.12 | 8136 | VV | 1.456 | KI=1171.4; | FE=218 |
| 117.59 | 1640 | BV | .294 | KI=1175.9; | FE=219 |
| 117.96 | 3578 | BV | .641 | KI=1179.7; | FE=220 |
| 118.14 | 4886 | VV | .875 | KI=1181.4; | FE=221 |
| 118.53 | 11528 | VV | 2.064 | KI=1185.3; | FE=222 |

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|--------|---------|-------|------------|--------|
| 118.96 | 5688 VV | 1.018 | KI=1189.6; | FE=223 |
| 119.15 | 4871 VV | .872 | KI=1191.5; | FE=224 |
| 119.39 | 6639 VV | 1.188 | KI=1193.9; | FE=225 |

REPORT: 8.42 (CONTINUED) PAGE: 5 ABSOLUTE AMOUNTS

| RT | AREA | ms/ml | NAME | |
|--------|----------|--------|-------------------------|--------|
| 120.00 | 77616 VV | 13.894 | \$1200-n-C12-ANE;FE=227 | |
| 120.34 | 2765 VV | .495 | KI=120^ 1; | FE=228 |
| 120.55 | 1703 VV | .305 | KI=120^ 1; | FE=229 |
| 121.09 | 3755 BV | .672 | KI=1210.9; | FE=231 |
| 121.41 | 23398 VV | 4.189 | KI=1214.2; | FE=232 |
| 121.82 | 1633 VV | .292 | KI=1218.2; | FE=233 |
| 122.17 | 1516 BV | .271 | KI=1221.7; | FE=235 |
| 122.43 | 1794 VV | .321 | KI=1224.3; | FE=236 |
| 122.78 | 5772 VV | 1.033 | KI=1227.8; | FE=237 |
| 123.39 | 12315 VV | 2.205 | KI=1233.9; | FE=238 |
| 123.86 | 7583 VV | 1.357 | KI=1238.6; | FE=239 |
| 124.17 | 3594 VV | .643 | KI=1241.7; | FE=240 |
| 124.54 | 2767 VV | .495 | KI=1245.4; | FE=241 |
| 124.84 | 5056 VV | .905 | KI=1248.5; | FE=242 |
| 125.28 | 6947 VV | 1.244 | KI=1252.8; | FE=243 |
| 125.48 | 10509 VV | 1.881 | KI=1254.8; | FE=244 |
| 125.92 | 7990 VV | 1.430 | KI=1259.3; | FE=245 |
| 126.40 | 10455 VV | 1.872 | KI=1264.0; | FE=246 |
| 126.76 | 3804 VV | .681 | KI=1267.6; | FE=247 |
| 127.02 | 7024 VV | 1.257 | KI=1270.2; | FE=248 |
| 127.31 | 21112 VV | 3.779 | KI=1273.1; | FE=249 |
| 128.26 | 11383 BV | 2.033 | KI=1282.7; | FE=253 |
| 128.56 | 1936 VV | .347 | KI=1285.6; | FE=254 |
| 129.42 | 2384 BB | .427 | KI=1294.2; | FE=256 |
| 130.00 | 65670 BV | 11.756 | \$1300-n-C13-ANE;FE=257 | |
| 130.95 | 3602 BV | .645 | KI=1309.6; | FE=259 |
| 131.15 | 2355 VB | .422 | KI=1311.5; | FE=260 |
| 131.62 | 1236 BV | .221 | | |
| 131.80 | 6622 VV | 1.185 | KI=1318.0; | FE=262 |
| 132.31 | 2275 VV | .407 | KI=1323.1; | FE=263 |
| 132.80 | 3793 VV | .679 | KI=1328.0; | FE=264 |
| 133.34 | 2902 VV | .519 | KI=1333.4; | FE=265 |
| 133.84 | 6072 VV | 1.087 | KI=1338.4; | FE=266 |
| 134.21 | 1806 VV | .323 | KI=1342.2; | FE=267 |
| 134.43 | 645 VB | .116 | KI=1344.5; | FE=268 |
| 134.74 | 1042 BV | .187 | KI=1347.5; | FE=269 |
| 135.10 | 4662 VV | .835 | KI=1351.1; | FE=270 |
| 135.41 | 2323 VV | .417 | KI=1354.0; | FE=271 |
| 135.88 | 4304 VV | .771 | KI=1358.9; | FE=272 |
| 136.40 | 8553 VV | 1.531 | KI=1364.0; | FE=273 |
| 137.03 | 4215 VV | .755 | KI=1370.3; | FE=274 |
| 137.67 | 10674 BB | 1.911 | KI=1376.7; | FE=275 |
| 138.30 | 2000 BB | .358 | KI=1383.0; | FE=276 |
| 138.85 | 1728 BV | .309 | KI=1388.6; | FE=277 |
| 139.33 | 7381 VV | 1.321 | KI=1393.4; | FE=278 |
| 140.00 | 32257 VV | 5.775 | \$1400-n-C14-ANE;FE=279 | |
| 140.40 | 1585 VV | .284 | KI=1404.0; | FE=280 |
| 140.78 | 4874 VV | .873 | KI=1407.9; | FE=281 |
| 141.09 | 4546 VV | .814 | KI=1411.1; | FE=282 |
| 141.35 | 1223 VV | .219 | KI=1413.6; | FE=283 |
| 141.59 | 1135 VB | .203 | | |
| 142.21 | 539 BV | .097 | KI=1422.0; | FE=285 |
| 142.71 | 1448 BV | .259 | KI=1427.2; | FE=286 |

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|--------|------|----|------|------------|--------|
| 143.01 | 696 | VB | .125 | KI=1430.3; | FE=287 |
| 143.42 | 606 | BB | .108 | KI=1434.1; | FE=288 |
| 144.31 | 1541 | BV | .276 | KI=1443.2; | FE=289 |

REPORT: 8.42 (CONTINUED) PAGE: 6 ABSOLUTE AMOUNTS

| RT | AREA | ms/ml | NAME | |
|--------|-------|-------|-------|-------------------------|
| 144.60 | 701 | VV | .126 | KI=1446.1; |
| 145.35 | 1077 | VV | .193 | KI=1453.4; |
| 145.86 | 1767 | VV | .316 | KI=1458.7; |
| 146.26 | 7452 | VB | 1.334 | KI=1462.7; |
| 147.07 | 1595 | BB | .286 | KI=1470.7; |
| 150.00 | 8926 | BB | 1.593 | \$1500-n-C15-ANE;FE=296 |
| 160.00 | 1419 | BB | .254 | \$1600-n-C16-ANE;FE=297 |
| 177.16 | 55861 | BB | | &ANTH-d10(IS)(KI=1772) |
| 211.80 | 4711 | BB | .843 | \$2118-(IMPURITY #3) |

TOTAL AREA = 21947088 TOTAL ms/ml = 698.863

PROCESSED DATA FILE: BKP163 RAW DATA FILE: DFR163

STATISTICAL SUMMARY OF MHOS DATA BASE

CONSISTING OF 2 SAMPLES
CONCENTRATION (mg/ml)

| COMPOUND NAME | AVERAGE | RANGE | STANDARD DEVIATION | XREL STANDARD DEVIATION | NUMBER OF SAMPLES | |
|------------------------|---------|----------|--------------------|-------------------------|-------------------|---|
| KI= 377.21 | FE=001 | 1.17E-01 | 3.37E-03 | 2.03E+00 | 2 | |
| KI= 388.01 | FE=002 | 4.32E-01 | 4.63E-03 | 7.58E-01 | 2 | |
| \$400-n-C4-ANE: | FE=003 | 1.36E+00 | 3.78E-03 | 2.67E-03 | 1.97E-01 | 2 |
| KI= 457.61 | FE=004 | 5.95E+00 | 6.81E-04 | 4.81E-04 | 8.09E-03 | 2 |
| \$500-n-C5-ANE: | FE=005 | 9.06E+00 | 2.33E-04 | 1.65E-04 | 1.82E-03 | 2 |
| KI= 507.01 | FE=006 | 1.55E-01 | 5.11E-02 | 3.61E-02 | 2.33E+01 | 2 |
| KI= 514.31 | FE=008 | 2.04E-01 | 1.03E-02 | 7.28E-03 | 3.56E+00 | 2 |
| KI= 520.11 | FE=009 | 7.92E-01 | 1.55E-02 | 1.10E-02 | 1.38E+00 | 2 |
| CH2CL2 SOLVENT | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.70E+38 | 2 |
| KI= 549.71 | FE=010 | 1.42E+00 | 5.40E-03 | 3.82E-03 | 2.68E-01 | 2 |
| KI= 552.41 | FE=011 | 1.73E+00 | 3.85E-03 | 2.72E-03 | 1.58E-01 | 2 |
| IMPURITY #1(KI= 558.6) | FE=012 | 1.50E-01 | 1.01E-01 | 7.11E-02 | 4.74E+01 | 2 |
| KI= 560.41 | FE=013 | 1.04E+01 | 2.14E-01 | 1.51E-01 | 1.46E+00 | 2 |
| KI= 577.31 | FE=014 | 7.22E+00 | 2.42E-02 | 1.71E-02 | 2.37E-01 | 2 |
| \$600-n-C6-ANE: | FE=015 | 1.77E+01 | 3.64E-02 | 2.57E-02 | 1.45E-01 | 2 |
| KI= 611.21 | FE=016 | 1.22E-01 | | | 1 | |
| KI= 613.91 | FE=017 | 2.19E-01 | 3.92E-03 | 2.77E-03 | 1.27E+00 | 2 |
| KI= 624.81 | FE=018 | 9.39E+00 | 8.04E-03 | 5.68E-03 | 6.05E-02 | 2 |
| KI= 627.31 | FE=019 | 1.15E-01 | 1.27E-02 | 9.00E-03 | 7.81E+00 | 2 |
| KI= 632.41 | FE=020 | 1.82E+00 | 1.70E-02 | 1.20E-02 | 6.60E-01 | 2 |
| KI= 653.01 | FE=021 | 1.05E+00 | 1.38E-03 | 9.75E-04 | 9.29E-02 | 2 |
| KI= 656.11 | FE=022 | 8.89E+00 | 3.62E-02 | 2.56E-02 | 2.88E-01 | 2 |
| KI= 658.81 | FE=023 | 3.75E+00 | 1.76E-02 | 1.24E-02 | 3.31E-01 | 2 |
| KI= 669.01 | FE=024 | 5.24E+00 | 4.29E-02 | 3.04E-02 | 5.80E-01 | 2 |
| KI= 670.41 | FE=025 | 1.26E+01 | 4.69E-02 | 3.45E-02 | 2.73E-01 | 2 |
| IMPURITY #2(KI= 674.4) | FE=026 | 7.66E-01 | 1.11E-02 | 7.86E-03 | 1.03E+00 | 2 |
| KI= 677.41 | FE=027 | 1.53E+01 | 8.10E-02 | 5.73E-02 | 3.74E-01 | 2 |
| KI= 679.81 | FE=028 | 2.73E+00 | 1.74E-02 | 1.23E-02 | 4.52E-01 | 2 |
| KI= 682.01 | FE=029 | 2.61E+00 | 1.42E-02 | 1.15E-02 | 4.38E-01 | 2 |
| KI= 684.61 | FE=030 | 4.75E+00 | 2.82E-02 | 1.99E-02 | 4.20E-01 | 2 |
| KI= 685.81 | FE=031 | 1.48E+00 | 1.22E-02 | 8.60E-03 | 5.83E-01 | 2 |
| \$700-n-C7-ANE: | FE=032 | 2.79E+01 | 1.67E-01 | 1.18E-01 | 4.23E-01 | 2 |
| KI= 701.81 | FE=033 | 1.54E-01 | 4.78E-02 | 3.38E-02 | 2.19E+01 | 2 |
| KI= 705.01 | FE=034 | 1.22E-01 | 1.32E-02 | 9.36E-03 | 7.70E+00 | 2 |
| KI= 708.01 | FE=035 | 1.66E-01 | 6.07E-02 | 4.29E-02 | 2.58E+01 | 2 |
| KI= 712.51 | FE=036 | 1.77E+01 | 7.54E-02 | 5.33E-02 | 3.01E-01 | 2 |
| KI= 715.61 | FE=037 | 1.60E+00 | 1.19E-02 | 8.39E-03 | 3.25E-01 | 2 |
| KI= 719.11 | FE=038 | 1.15E+00 | 3.04E-03 | 2.15E-03 | 1.88E-01 | 2 |
| KI= 725.81 | FE=039 | 1.80E+00 | 4.44E-03 | 3.14E-03 | 1.75E-01 | 2 |
| KI= 730.01 | FE=040 | 2.66E+00 | 1.24E-02 | 8.73E-03 | 3.28E-01 | 2 |
| KI= 731.01 | FE=041 | 4.49E+00 | 2.08E-02 | 1.47E-02 | 3.28E-01 | 2 |
| KI= 733.61 | FE=042 | 1.79E+00 | 9.88E-03 | 6.98E-03 | 3.90E-01 | 2 |
| KI= 735.01 | FE=043 | 1.62E+00 | 5.42E-03 | 3.83E-03 | 2.37E-01 | 2 |
| KI= 741.21 | FE=044 | 1.73E+00 | 6.17E-03 | 4.36E-03 | 2.52E-01 | 2 |
| KI= 743.31 | FE=045 | 5.54E-01 | 5.00E-03 | 3.53E-03 | 6.39E-01 | 2 |
| KI= 745.41 | FE=046 | 5.15E-01 | 1.47E-03 | 1.04E-03 | 2.01E-01 | 2 |
| KI= 749.91 | FE=047 | 1.57E-01 | 2.30E-02 | 1.62E-02 | 1.03E+01 | 2 |
| KI= 753.91 | FE=048 | 6.59E-01 | 1.41E-02 | 9.99E-03 | 1.51E+00 | 2 |
| KI= 757.11 | FE=049 | 4.73E+00 | 4.11E-02 | 2.90E-02 | 6.13E-01 | 2 |
| KI= 758.81 | FE=050 | 9.40E+00 | 5.58E-02 | 3.95E-02 | 4.20E-01 | 2 |
| KI= 762.01 | FE=051 | 3.13E-01 | 1.52E-03 | 1.09E-03 | 3.44E-01 | 2 |
| KI= 765.31 | FE=052 | 1.98E+01 | 1.44E-01 | 1.02E-01 | 5.14E-01 | 2 |
| KI= 766.41 | FE=053 | 7.71E+00 | 3.33E-02 | 2.36E-02 | 3.05E-01 | 2 |

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|-----------------|--------|----------|----------|----------|----------|---|
| KI= 768.81 | FE=054 | 5.16E+00 | 3.02E-02 | 2.14E-02 | 4.14E-01 | 2 |
| KI= 770.61 | FE=055 | 2.78E+00 | 1.76E-02 | 1.25E-02 | 4.48E-01 | 2 |
| KI= 772.41 | FE=056 | 2.25E+01 | 1.45E-01 | 1.02E-01 | 4.55E-01 | 2 |
| KI= 775.21 | FE=057 | 9.21E-01 | 5.48E-03 | 3.87E-03 | 4.20E-01 | 2 |
| KI= 781.01 | FE=058 | 1.26E+00 | 2.57E-03 | 1.81E-03 | 1.44E-01 | 2 |
| KI= 783.21 | FE=059 | 7.71E-01 | 8.00E-04 | 5.65E-04 | 7.33E-02 | 2 |
| KI= 784.41 | FE=060 | 1.48E+00 | 1.57E-01 | 1.11E-01 | 7.50E+00 | 2 |
| KI= 785.41 | FE=061 | 1.53E-01 | | | | 1 |
| KI= 786.91 | FE=062 | 2.67E+00 | 2.14E-03 | 1.51E-03 | 5.28E-02 | 2 |
| KI= 791.11 | FE=062 | 9.34E-02 | | | | 1 |
| KI= 794.41 | FE=064 | 6.61E-01 | 7.06E-03 | 4.99E-03 | 7.55E-01 | 2 |
| KI= 795.71 | FE=065 | 1.58E+00 | 1.43E-02 | 1.01E-02 | 6.41E-01 | 2 |
| \$800-n-C8-ANE: | FE=066 | 2.98E+01 | 2.06E-01 | 1.45E-01 | 4.89E-01 | 2 |
| KI= 802.51 | FE=067 | 1.04E-01 | 2.96E-03 | 2.09E-03 | 2.01E+00 | 2 |
| KI= 805.71 | FE=068 | 1.41E-01 | 1.51E-03 | 1.07E-03 | 7.60E-01 | 2 |
| KI= 807.11 | FE=069 | 2.69E-01 | 6.23E-05 | 4.41E-05 | 1.64E-02 | 2 |
| KI= 808.91 | FE=070 | 9.81E-02 | 2.21E-03 | 1.56E-03 | 1.60E+00 | 2 |
| KI= 812.31 | FE=071 | 6.18E-01 | 1.30E-03 | 9.22E-04 | 1.49E-01 | 2 |
| KI= 813.61 | FE=072 | 2.97E-01 | 3.85E-03 | 2.72E-03 | 9.16E-01 | 2 |
| KI= 817.01 | FE=073 | 9.93E-01 | 1.25E-02 | 8.82E-03 | 8.89E-01 | 2 |
| KI= 818.21 | FE=074 | 8.49E-01 | 9.05E-02 | 6.40E-02 | 7.54E+00 | 2 |
| KI= 821.31 | FE=075 | 2.39E+00 | 1.81E-01 | 1.28E-01 | 5.35E+00 | 2 |
| KI= 824.21 | FE=076 | 3.79E+00 | 9.75E-01 | 6.90E-01 | 1.82E+01 | 2 |
| KI= 825.71 | FE=077 | 6.94E-01 | 1.02E+00 | 7.23E-01 | 1.04E+02 | 2 |
| KI= 828.11 | FE=078 | 6.11E+00 | 2.15E-01 | 1.52E-01 | 2.48E+00 | 2 |
| KI= 834.41 | FE=079 | 6.94E+00 | 4.97E-02 | 3.51E-02 | 5.06E-01 | 2 |
| KI= 837.01 | FE=080 | 2.61E-01 | 1.17E-03 | 8.27E-04 | 3.17E-01 | 2 |
| KI= 840.81 | FE=081 | 2.31E-01 | 3.61E-03 | 2.55E-03 | 1.10E+00 | 2 |
| KI= 842.71 | FE=082 | 2.28E+00 | 1.28E-02 | 9.08E-03 | 3.98E-01 | 2 |
| KI= 844.21 | FE=083 | 6.51E-01 | 3.51E-03 | 2.48E-03 | 3.81E-01 | 2 |
| KI= 846.21 | FE=084 | 2.73E-01 | 1.18E-03 | 8.36E-04 | 3.06E-01 | 2 |
| KI= 848.21 | FE=085 | 1.38E-01 | 8.10E-05 | 5.73E-05 | 4.16E-02 | 2 |
| KI= 850.91 | FE=086 | 9.33E-02 | | | | 1 |
| KI= 852.81 | FE=087 | 1.89E-01 | 9.35E-04 | 6.61E-04 | 3.49E-01 | 2 |
| KI= 854.41 | FE=088 | 5.08E+00 | 3.66E-02 | 2.59E-02 | 5.10E-01 | 2 |
| KI= 856.11 | FE=089 | 1.93E+00 | 1.13E-02 | 7.99E-03 | 4.13E-01 | 2 |
| KI= 860.01 | FE=090 | 1.20E+00 | 3.56E-02 | 2.52E-02 | 2.09E+00 | 2 |
| KI= 862.21 | FE=091 | 9.15E+00 | 2.29E-01 | 1.62E-01 | 1.77E+00 | 2 |
| KI= 863.81 | FE=092 | 5.99E+00 | 1.10E-02 | 7.80E-03 | 1.30E-01 | 2 |
| KI= 865.01 | FE=093 | 7.01E+00 | 2.38E-01 | 1.68E-01 | 2.40E+00 | 2 |
| KI= 867.41 | FE=094 | 2.78E-01 | 2.35E-01 | 1.66E-01 | 5.99E+01 | 2 |
| KI= 869.51 | FE=095 | 1.52E+00 | 2.36E-01 | 1.67E-01 | 1.10E+01 | 2 |
| KI= 871.21 | FE=096 | 7.89E+00 | 2.44E-01 | 1.72E-01 | 2.18E+00 | 2 |
| KI= 873.11 | FE=097 | 3.70E-01 | 1.08E-01 | 7.65E-02 | 2.07E+01 | 2 |
| KI= 877.11 | FE=098 | 4.50E-01 | 1.16E-02 | 8.19E-03 | 1.82E+00 | 2 |
| KI= 880.01 | FE=099 | 3.18E+00 | 1.85E-02 | 1.31E-02 | 4.12E-01 | 2 |
| KI= 881.61 | FE=100 | 1.24E+00 | 2.34E-02 | 1.65E-02 | 1.33E+00 | 2 |
| KI= 884.51 | FE=102 | 4.03E+00 | 3.45E-02 | 2.44E-02 | 6.04E-01 | 2 |
| KI= 887.41 | FE=103 | 3.17E-01 | 4.52E-03 | 3.19E-03 | 1.01E+00 | 2 |
| KI= 890.91 | FE=104 | 2.83E-01 | 7.23E-03 | 5.11E-03 | 1.81E+00 | 2 |
| KI= 892.61 | FE=105 | 1.62E-01 | 8.21E-03 | 5.80E-03 | 3.59E+00 | 2 |
| KI= 894.61 | FE=106 | 4.62E-01 | 1.91E-02 | 1.35E-02 | 2.92E+00 | 2 |
| KI= 895.91 | FE=107 | 4.49E-01 | 1.63E-02 | 1.15E-02 | 2.57E+00 | 2 |
| KI= 897.61 | FE=108 | 8.95E-01 | 3.55E-02 | 2.51E-02 | 2.81E+00 | 2 |
| \$900-n-C9-ANE: | FE=109 | 1.79E+01 | 3.60E-01 | 2.55E-01 | 1.43E+00 | 2 |
| KI= 901.31 | FE=110 | 1.45E-01 | | | | 1 |
| KI= 908.41 | FE=112 | 1.25E+00 | 4.10E-03 | 2.90E-03 | 2.31E-01 | 2 |
| KI= 910.81 | FE=113 | 7.44E-01 | 1.52E-02 | 1.07E-02 | 1.44E+00 | 2 |
| KI= 913.91 | FE=114 | 3.95E-01 | 5.36E-03 | 3.79E-03 | 9.59E-01 | 2 |
| KI= 915.41 | FE=115 | 3.12E-01 | 3.13E-03 | 2.21E-03 | 7.08E-01 | 2 |
| KI= 917.71 | FE=116 | 1.77E+00 | 1.98E-02 | 1.40E-02 | 7.91E-01 | 2 |

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|-------------------------|--------|----------|----------|----------|----------|---|
| KI= 920.1; | FE=117 | 4.92E-01 | 3.76E-03 | 2.66E-03 | 5.40E-01 | 2 |
| KI= 922.6; | FE=118 | 2.37E+00 | 1.85E-02 | 1.31E-02 | 5.53E-01 | 2 |
| KI= 924.7; | FE=119 | 1.31E+00 | 1.57E-02 | 1.11E-02 | 8.46E-01 | 2 |
| KI= 929.1; | FE=120 | 1.98E+00 | 2.46E-02 | 1.74E-02 | 8.78E-01 | 2 |
| KI= 933.5; | FE=122 | 4.36E+00 | 4.73E-02 | 3.34E-02 | 7.68E-01 | 2 |
| KI= 939.4; | FE=123 | 3.30E+00 | 3.88E-02 | 2.74E-02 | 8.30E-01 | 2 |
| KI= 945.3; | FE=125 | 1.54E+00 | 1.71E-02 | 1.21E-02 | 7.83E-01 | 2 |
| KI= 947.4; | FE=126 | 1.40E+00 | 1.72E-02 | 1.21E-02 | 8.66E-01 | 2 |
| KI= 952.0; | FE=127 | 9.10E-01 | 3.26E-02 | 2.31E-02 | 2.53E+00 | 2 |
| KI= 953.5; | FE=128 | 1.63E+00 | 8.30E-02 | 5.87E-02 | 3.60E+00 | 2 |
| KI= 955.8; | FE=129 | 4.47E+00 | 9.46E-02 | 6.69E-02 | 1.50E+00 | 2 |
| KI= 956.8; | FE=130 | 1.59E+00 | 2.60E-01 | 1.84E-01 | 1.16E+01 | 2 |
| KI= 960.5; | FE=131 | 9.95E-01 | 2.26E-01 | 1.60E-01 | 1.61E+01 | 2 |
| KI= 962.1; | FE=132 | 5.02E+00 | 6.08E-01 | 4.30E-01 | 8.55E+00 | 2 |
| KI= 964.7; | FE=133 | 2.71E+00 | 8.70E-01 | 6.15E-01 | 2.27E+01 | 2 |
| KI= 966.1; | FE=134 | 3.62E-01 | | | 6.31E+01 | 1 |
| KI= 967.4; | FE=135 | 9.63E-01 | 8.59E-01 | 6.07E-01 | 3.94E+00 | 2 |
| KI= 970.8; | FE=136 | 2.57E+00 | 1.43E-01 | 1.01E-01 | 4.91E+00 | 2 |
| KI= 972.7; | FE=137 | 1.71E+00 | 1.19E-01 | 8.40E-02 | 3.02E+01 | 2 |
| KI= 974.9; | FE=138 | 1.38E-01 | 5.89E-02 | 4.16E-02 | | |
| KI= 976.9; | FE=139 | 1.63E+00 | 1.21E-01 | 8.54E-02 | 5.25E+00 | 2 |
| KI= 979.2; | FE=140 | 1.47E+00 | 1.18E-01 | 8.35E-02 | 5.68E+00 | 2 |
| KI= 981.7; | FE=142 | 5.85E-01 | 5.30E-02 | 3.75E-02 | 6.41E+00 | 2 |
| KI= 983.3; | FE=143 | 2.51E-01 | 5.63E-02 | 3.98E-02 | 1.59E+01 | 2 |
| KI= 986.2; | FE=144 | 7.88E+00 | 1.58E-01 | 1.11E-01 | 1.41E+00 | 2 |
| KI= 989.0; | FE=145 | 9.16E-01 | 7.55E-02 | 5.34E-02 | 5.82E+00 | 2 |
| KI= 993.5; | FE=146 | 1.05E+00 | 8.58E-02 | 6.06E-02 | 5.75E+00 | 2 |
| KI= 995.3; | FE=147 | 3.27E-01 | 3.35E-02 | 2.37E-02 | 7.25E+00 | 2 |
| KI= 996.8; | FE=148 | 2.61E-01 | 1.45E-02 | 1.03E-02 | 3.93E+00 | 2 |
| *1000-n-C10-ANE; FE=149 | | 1.44E+01 | 1.78E-01 | 1.26E-01 | 8.77E-01 | 2 |
| KI=1003.9; | FE=150 | 7.65E-01 | 1.64E-02 | 1.16E-02 | 1.52E+00 | 2 |
| KI=1009.0; | FE=151 | 4.15E-01 | 1.01E-01 | 7.12E-02 | 1.71E+01 | 2 |
| KI=1013.9; | FE=152 | 3.93E+00 | 4.55E-01 | 3.22E-01 | 8.19E+00 | 2 |
| KI=1017.0; | FE=153 | 1.28E+00 | 6.10E-01 | 4.31E-01 | 3.38E+01 | 2 |
| KI=1019.3; | FE=154 | 5.36E-01 | | | 8.84E+01 | 1 |
| KI=1020.1; | FE=155 | 4.72E-01 | 5.90E-01 | 4.17E-01 | | |
| KI=1022.9; | FE=156 | 3.14E+00 | 3.22E-01 | 2.28E-01 | 7.26E+00 | 2 |
| KI=1025.8; | FE=157 | 2.37E+00 | 6.33E-02 | 4.48E-02 | 1.89E+00 | 2 |
| KI=1028.4; | FE=158 | 1.62E+00 | 5.34E-02 | 3.78E-02 | 2.33E+00 | 2 |
| KI=1031.6; | FE=159 | 1.04E+00 | 5.60E-02 | 3.96E-02 | 3.81E+00 | 2 |
| KI=1033.4; | FE=160 | 4.21E-01 | 1.04E-02 | 7.32E-03 | 1.74E+00 | 2 |
| KI=1034.6; | FE=161 | 8.74E-01 | 4.26E-02 | 3.01E-02 | 3.45E+00 | 2 |
| KI=1036.6; | FE=162 | 4.11E-01 | 2.59E-02 | 1.83E-02 | 4.45E+00 | 2 |
| KI=1038.5; | FE=163 | 9.46E-01 | 2.91E-02 | 2.06E-02 | 2.18E+00 | 2 |
| KI=1040.6; | FE=164 | 2.71E-01 | 2.85E-02 | 2.01E-02 | 7.44E+00 | 2 |
| KI=1043.2; | FE=165 | 1.62E+00 | 1.68E-02 | 1.19E-02 | 7.33E-01 | 2 |
| KI=1044.7; | FE=166 | 6.30E-01 | 1.87E-02 | 1.32E-02 | 2.09E+00 | 2 |
| KI=1046.4; | FE=167 | 2.53E+00 | 1.01E-02 | 7.18E-03 | 2.83E-01 | 2 |
| KI=1049.4; | FE=168 | 1.03E+00 | 3.94E-02 | 2.78E-02 | 2.71E+00 | 2 |
| KI=1050.6; | FE=169 | 1.59E+00 | 6.48E-02 | 4.58E-02 | 2.88E+00 | 2 |
| KI=1053.8; | FE=170 | 2.02E+00 | 4.44E-03 | 3.14E-03 | 1.54E-01 | 2 |
| KI=1055.3; | FE=171 | 4.02E-01 | 1.69E-01 | 1.20E-01 | 2.98E+01 | 2 |
| KI=1057.9; | FE=173 | 1.74E+00 | 1.70E-03 | 1.20E-03 | 6.90E-02 | 2 |
| KI=1060.8; | FE=174 | 2.41E+00 | 2.49E-02 | 1.76E-02 | 7.29E-01 | 2 |
| KI=1064.6; | FE=175 | 2.73E+00 | 1.36E-02 | 9.62E-03 | 3.52E-01 | 2 |
| KI=1066.2; | FE=176 | 6.70E-01 | 8.25E-03 | 5.83E-03 | 8.70E-01 | 2 |
| KI=1070.6; | FE=177 | 3.57E+00 | 3.85E-02 | 2.72E-02 | 7.63E-01 | 2 |
| KI=1072.8; | FE=178 | 2.00E+00 | 2.45E-03 | 1.73E-03 | 8.67E-02 | 2 |
| KI=1079.0; | FE=179 | 3.42E+00 | 2.49E-02 | 1.76E-02 | 5.14E-01 | 2 |
| KI=1081.6; | FE=180 | 9.15E-01 | 7.09E-04 | 5.01E-04 | 5.48E-02 | 2 |
| KI=1084.3; | FE=181 | 1.07E+00 | 1.19E-02 | 8.45E-03 | 7.88E-01 | 2 |

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|------------------------|--------|----------|----------|----------|------------|---|
| KI=1087.2; | FE=182 | 6.59E-01 | 1.50E-02 | 1.06E-02 | 1.61E+00 | 2 |
| KI=1089.4; | FE=183 | 5.10E-01 | 1.26E-02 | 8.89E-03 | 1.74E+00 | 2 |
| KI=1090.8; | FE=184 | 5.61E-01 | 1.23E-02 | 9.07E-03 | 1.62E+00 | 2 |
| KI=1093.8; | FE=185 | 2.80E-01 | 1.52E-03 | 1.08E-03 | 3.85E-01 | 2 |
| KI=1096.0; | FE=186 | 1.01E+00 | 1.39E-04 | 9.79E-05 | 9.65E-03 | 2 |
| *1100-n-C11-ANE;FE=187 | | 1.72E+01 | 1.34E-01 | 9.46E-02 | 5.50E-01 | 2 |
| KI=1104.4; | FE=188 | 5.40E-01 | 3.40E-03 | 2.40E-03 | 4.45E-01 | 2 |
| KI=1106.6; | FE=189 | 1.12E-01 | 1.44E-03 | 1.02E-03 | 9.06E-01 | 2 |
| KI=1108.4; | FE=190 | 1.15E+00 | 1.32E-02 | 9.30E-03 | 8.09E-01 | 2 |
| KI=1110.3; | FE=191 | 3.46E-01 | 8.37E-03 | 5.92E-03 | 1.71E+00 | 2 |
| KI=1112.6; | FE=192 | 2.18E+00 | 3.51E-02 | 2.48E-02 | 1.14E+00 | 2 |
| KI=1115.8; | FE=193 | 1.89E+00 | 1.83E-02 | 1.29E-02 | 6.84E-01 | 2 |
| KI=1117.7; | FE=194 | 8.61E-01 | 2.57E-02 | 1.82E-02 | 2.11E+00 | 2 |
| KI=1119.7; | FE=195 | 1.34E-01 | 1.27E-03 | 9.01E-04 | 6.75E-01 | 2 |
| KI=1123.4; | FE=196 | 3.09E-01 | 7.49E-03 | 5.30E-03 | 1.72E+00 | 2 |
| KI=1127.0; | FE=197 | 1.17E+00 | 1.46E-02 | 1.03E-02 | 8.83E-01 | 2 |
| KI=1129.4; | FE=198 | 1.71E+00 | 1.65E-02 | 1.16E-02 | 6.82E-01 | 2 |
| KI=1132.7; | FE=199 | 1.14E-01 | 2.76E-02 | 1.95E-02 | 1.71E+01 | 2 |
| KI=1135.0; | FE=200 | 2.30E-01 | 9.63E-04 | 6.81E-04 | 2.96E-01 | 2 |
| KI=1137.1; | FE=201 | 1.68E-01 | 4.03E-03 | 2.85E-03 | 1.70E+00 | 2 |
| KI=1139.7; | FE=202 | 1.07E+00 | 3.85E-02 | 2.72E-02 | 2.54E+00 | 2 |
| KI=1141.0; | FE=203 | 8.97E-01 | 1.38E-02 | 9.73E-03 | 1.08E+00 | 2 |
| KI=1144.0; | FE=204 | 1.62E+00 | 1.75E-02 | 1.24E-02 | 7.64E-01 | 2 |
| KI=1148.3; | FE=205 | 8.15E-01 | 5.52E-03 | 3.90E-03 | 4.79E-01 | 2 |
| KI=1149.8; | FE=206 | 3.56E-01 | 6.58E-04 | 4.65E-04 | 1.31E-01 | 2 |
| KI=1152.6; | FE=207 | 1.40E+00 | 1.65E-02 | 1.16E-02 | 8.29E-01 | 2 |
| KI=1155.0; | FE=208 | 7.84E-01 | 1.82E-02 | 1.29E-02 | 1.64E+00 | 2 |
| KI=1156.1; | FE=209 | 1.65E+00 | 1.26E-02 | 8.88E-03 | 5.37E-01 | 2 |
| KI=1158.0; | FE=210 | 2.19E-01 | 2.38E-02 | 1.68E-02 | 7.69E+00 | 2 |
| KI=1159.8; | FE=211 | 1.60E+00 | 3.10E-02 | 2.19E-02 | 1.37E+00 | 2 |
| KI=1161.8; | FE=212 | 4.16E-01 | 3.84E-02 | 2.72E-02 | 6.53E+00 | 2 |
| KI=1164.2; | FE=213 | 2.98E+00 | 9.75E-02 | 6.89E-02 | 2.32E+00 | 2 |
| KI=1170.4; | FE=214 | 3.55E+00 | 1.67E+00 | 1.16E+00 | (3.32E+01) | 2 |
| KI=1171.4; | FE=215 | 1.46E+00 | | | | 1 |
| KI=1175.9; | FE=216 | 4.66E-01 | 3.45E-01 | 2.44E-01 | 3.24E+01 | 2 |
| KI=1179.7; | FE=217 | 7.33E-01 | 1.85E-01 | 1.31E-01 | 1.79E+01 | 2 |
| KI=1181.4; | FE=218 | 9.35E-01 | 1.21E-01 | 8.56E-02 | 9.16E+00 | 2 |
| KI=1185.3; | FE=219 | 2.19E+00 | 2.47E-01 | 1.75E-01 | 7.98E+00 | 2 |
| KI=1189.6; | FE=220 | 1.08E+00 | 1.21E-01 | 8.57E-02 | 7.95E+00 | 2 |
| KI=1191.5; | FE=221 | 9.00E-01 | 5.63E-02 | 3.98E-02 | 4.42E+00 | 2 |
| KI=1193.9; | FE=222 | 1.22E+00 | 6.55E-02 | 4.63E-02 | 3.79E+00 | 2 |
| *1200-n-C12-ANE;FE=223 | | 1.39E+01 | 1.44E-02 | 1.02E-02 | 7.32E-02 | 2 |
| KI=1203.4; | FE=224 | 5.70E-01 | 1.49E-01 | 1.05E-01 | 1.85E+01 | 2 |
| KI=1205.6; | FE=225 | 4.69E-01 | 3.29E-01 | 2.33E-01 | (4.26E+01) | 2 |
| KI=1210.9; | FE=226 | 8.63E-01 | 3.81E-01 | 2.70E-01 | (3.12E+01) | 2 |
| KI=1214.2; | FE=227 | 4.40E+00 | 4.23E-01 | 2.99E-01 | 6.80E+00 | 2 |
| KI=1218.2; | FE=228 | 6.16E-01 | 6.47E-01 | 4.58E-01 | (7.43E+01) | 2 |
| KI=1221.7; | FE=229 | 4.31E-01 | 3.19E-01 | 2.26E-01 | (5.24E+01) | 2 |
| KI=1224.3; | FE=230 | 3.60E-01 | 7.80E-02 | 5.52E-02 | 1.53E+01 | 2 |
| KI=1227.8; | FE=231 | 1.05E+00 | 4.31E-02 | 3.04E-02 | 2.89E+00 | 2 |
| KI=1233.9; | FE=232 | 2.20E+00 | 1.47E-02 | 1.04E-02 | 4.73E-01 | 2 |
| KI=1238.6; | FE=233 | 1.36E+00 | 6.97E-04 | 4.93E-04 | 3.63E-02 | 2 |
| KI=1241.7; | FE=234 | 6.40E-01 | 6.89E-03 | 4.87E-03 | 7.62E-01 | 2 |
| KI=1245.4; | FE=235 | 4.96E-01 | 4.43E-04 | 3.13E-04 | 6.31E-02 | 2 |
| KI=1248.5; | FE=236 | 9.05E-01 | 1.34E-04 | 9.47E-05 | 1.05E-02 | 2 |
| KI=1252.8; | FE=237 | 1.25E+00 | 3.44E-03 | 2.43E-03 | 1.95E-01 | 2 |
| KI=1254.8; | FE=238 | 1.87E+00 | 2.18E-02 | 1.54E-02 | 8.23E-01 | 2 |
| KI=1259.3; | FE=239 | 1.43E+00 | 5.43E-03 | 3.84E-03 | 2.68E-01 | 2 |
| KI=1264.0; | FE=240 | 1.87E+00 | 8.90E-03 | 6.29E-03 | 3.37E-01 | 2 |
| KI=1267.6; | FE=241 | 6.85E-01 | 7.26E-03 | 5.14E-03 | 7.50E-01 | 2 |
| KI=1270.2; | FE=242 | 1.25E+00 | 6.51E-03 | 4.60E-03 | 3.67E-01 | 2 |

| | | | | | | |
|-------------------------|--------|----------|----------|----------|----------|---|
| KI=1273.1; | FE=249 | 3.78E+00 | 6.15E-03 | 4.35E-03 | 1.15E-01 | 2 |
| KI=1282.7; | FE=253 | 2.03E+00 | 7.30E-03 | 5.16E-03 | 2.54E-01 | 2 |
| KI=1285.6; | FE=254 | 3.47E-01 | 1.02E-04 | 7.21E-05 | 2.08E-02 | 2 |
| KI=1288.3; | FE=255 | 1.10E-01 | | | | 1 |
| KI=1294.2; | FE=256 | 4.17E-01 | 1.93E-02 | 1.37E-02 | 3.28E+00 | 2 |
| \$1300-n-C13-ANE;FE=257 | | 1.18E+01 | 1.13E-02 | 8.02E-03 | 6.83E-02 | 2 |
| KI=1309.6; | FE=259 | 6.34E-01 | 2.19E-02 | 1.55E-02 | 2.45E+00 | 2 |
| KI=1311.5; | FE=260 | 4.25E-01 | 7.75E-03 | 5.48E-03 | 1.29E+00 | 2 |
| KI=1318.0; | FE=262 | 9.32E-01 | 5.06E-01 | 3.58E-01 | 3.84E+01 | 2 |
| KI=1323.1; | FE=263 | 3.43E-01 | 1.28E-01 | 9.08E-02 | 2.65E+01 | 2 |
| KI=1328.0; | FE=264 | 6.70E-01 | 1.85E-02 | 1.31E-02 | 1.25E+00 | 2 |
| KI=1333.4; | FE=265 | 4.51E-01 | 1.37E-01 | 9.68E-02 | 2.15E+01 | 2 |
| KI=1338.4; | FE=266 | 8.08E-01 | 5.57E-01 | 3.94E-01 | 4.87E+01 | 2 |
| KI=1342.2; | FE=267 | 2.62E-01 | 1.23E-01 | 8.70E-02 | 3.32E+01 | 2 |
| KI=1344.5; | FE=268 | 1.16E-01 | | | | 1 |
| KI=1347.5; | FE=269 | 1.89E-01 | 5.87E-03 | 4.15E-03 | 2.19E+00 | 2 |
| KI=1351.1; | FE=270 | 8.37E-01 | 4.30E-03 | 3.04E-03 | 3.63E-01 | 2 |
| KI=1354.0; | FE=271 | 4.19E-01 | 3.80E-03 | 2.69E-03 | 6.42E-01 | 2 |
| KI=1358.9; | FE=272 | 7.47E-01 | 4.70E-02 | 3.32E-02 | 4.45E+00 | 2 |
| KI=1364.0; | FE=273 | 1.43E+00 | 2.08E-01 | 1.47E-01 | 1.03E+01 | 2 |
| KI=1370.3; | FE=274 | 7.20E-01 | 6.99E-02 | 4.94E-02 | 6.87E+00 | 2 |
| KI=1376.7; | FE=275 | 1.91E+00 | 4.96E-04 | 3.51E-04 | 1.84E-02 | 2 |
| KI=1383.0; | FE=276 | 3.56E-01 | 3.14E-03 | 2.22E-03 | 6.23E-01 | 2 |
| KI=1388.6; | FE=277 | 3.09E-01 | 6.74E-04 | 4.76E-04 | 1.54E-01 | 2 |
| KI=1393.4; | FE=278 | 1.28E+00 | 8.21E-02 | 5.81E-02 | 4.54E+00 | 2 |
| \$1400-n-C14-ANE;FE=279 | | 5.67E+00 | 2.17E-01 | 1.53E-01 | 2.71E+00 | 2 |
| KI=1404.0; | FE=280 | 2.74E-01 | 1.94E-02 | 1.38E-02 | 5.02E+00 | 2 |
| KI=1407.9; | FE=281 | 8.72E-01 | 1.24E-03 | 8.76E-04 | 1.00E-01 | 2 |
| KI=1411.1; | FE=282 | 8.24E-01 | 1.95E-02 | 1.38E-02 | 1.67E+00 | 2 |
| KI=1413.6; | FE=283 | 2.21E-01 | 3.74E-03 | 2.64E-03 | 1.20E+00 | 2 |
| KI=1422.0; | FE=285 | 9.65E-02 | | | | 1 |
| KI=1427.2; | FE=286 | 3.48E-01 | 1.78E-01 | 1.26E-01 | 3.62E+01 | 2 |
| KI=1430.3; | FE=287 | 1.30E-01 | 1.04E-02 | 7.34E-03 | 5.65E+00 | 2 |
| KI=1434.1; | FE=288 | 1.08E-01 | 1.84E-03 | 1.30E-03 | 1.21E+00 | 2 |
| KI=1443.2; | FE=289 | 2.68E-01 | 1.62E-02 | 1.15E-02 | 4.29E+00 | 2 |
| KI=1446.1; | FE=290 | 1.26E-01 | | | | 1 |
| KI=1450.5; | FE=291 | 1.66E-01 | | | | 1 |
| KI=1453.4; | FE=292 | 2.11E-01 | 3.73E-02 | 2.64E-02 | 1.25E+01 | 2 |
| KI=1458.7; | FE=293 | 3.13E-01 | 6.38E-03 | 4.51E-03 | 1.44E+00 | 2 |
| KI=1462.7; | FE=294 | 1.34E+00 | 9.09E-03 | 6.42E-03 | 4.80E-01 | 2 |
| KI=1470.7; | FE=295 | 2.89E-01 | 7.13E-03 | 5.04E-03 | 1.74E+00 | 2 |
| \$1500-n-C15-ANE;FE=296 | | 1.60E+00 | 1.64E-03 | 1.16E-03 | 7.28E-02 | 2 |
| \$1600-n-C16-ANE;FE=297 | | 2.54E-01 | 3.66E-04 | 2.59E-04 | 1.02E-01 | 2 |
| &ANTH-d10(IS)(KI=1772) | | 1.00E+01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 2 |
| \$2118-(IMPURITY #3) | | 8.58E-01 | 2.92E-02 | 2.07E-02 | 2.41E+00 | 2 |
| TOTAL CONCENTRATION | | 6.79E+02 | 4.03E+01 | 2.85E+01 | 4.20E+00 | 2 |

RELATIVE AMOUNTS OF FEATURES IN FUEL # 107

REPORT: 7.23 CHANNEL: 12

AMT. REL. TO REF. FUEL

SAMPLE: 607JP4MEC01 INJECTED AT 5:38:03 ON MAY 24, 1983

ISTD METHOD: DFFCNT BTL: 13

ACTUAL RUN TIME: 540.000 MINUTES

ISTD-RATIO: 10.000 % REL. STD-AMT: 10.0000 SAMP-AMT: 1.0000

| RT | AREA | % REL. | NAME |
|-------|-------------------|------------------------|--------|
| 37.74 | 622 VV 108.628 | KI= 377.2; | FE=001 |
| 38.81 | 2270 VV 114.558 | KI= 388.0; | FE=002 |
| 40.00 | 7088 BV 112.606 | \$400-n-C4-ANE; | FE=003 |
| 45.74 | 31125 VV 112.250 | KI= 457.6; | FE=004 |
| 50.00 | 47377 VV 112.309 | \$500-n-C5-ANE; | FE=005 |
| 50.70 | 678 VV 107.555 | KI= 507.0; | FE=006 |
| 51.43 | 1041 VV 158.199 | KI= 514.3; | FE=008 |
| 52.02 | 4102 BV 112.554 | KI= 520.1; | FE=009 |
| 52.65 | 16843340 ++ 0.000 | CH2CL2 SOLVENT | |
| 54.90 | 7456 VV 110.415 | KI= 549.7; | FE=010 |
| 55.17 | 9037 VV 111.105 | KI= 552.4; | FE=011 |
| 55.79 | 521 VB 66.915 | IMPURITY #1(KI= 558.6) | |
| 55.99 | 53562 BV 110.357 | KI= 560.4; | FE=012 |
| 57.70 | 37693 VV 111.895 | KI= 577.3; | FE=013 |
| 60.00 | 92429 VV 112.006 | \$600-n-C6-ANE; | FE=014 |
| 61.39 | 1153 BB 130.758 | KI= 613.9; | FE=017 |
| 62.48 | 49092 VV 111.899 | KI= 624.8; | FE=018 |
| 62.72 | 569 VB 101.815 | KI= 627.3; | FE=019 |
| 63.24 | 9566 BB 112.425 | KI= 632.4; | FE=020 |
| 65.28 | 5491 VV 112.652 | KI= 653.0; | FE=021 |
| 65.60 | 46372 BB 111.631 | KI= 656.1; | FE=022 |
| 65.88 | 19578 BB 102.846 | KI= 658.8; | FE=023 |
| 66.91 | 27270 BV 112.520 | KI= 669.0; | FE=024 |
| 67.05 | 65988 VR 110.954 | KI= 670.4; | FE=025 |
| 67.45 | 3974 VB 101.353 | IMPURITY #2(KI= 674.4) | |
| 67.76 | 79920 BV 111.495 | KI= 677.4; | FE=026 |
| 67.99 | 14215 VV 111.260 | KI= 679.8; | FE=027 |
| 68.21 | 13623 VV 111.218 | KI= 682.0; | FE=028 |
| 68.47 | 24739 VV 111.467 | KI= 684.6; | FE=029 |
| 68.59 | 7681 VB 111.168 | KI= 685.8; | FE=030 |
| 70.00 | 145618 VV 111.407 | \$700-n-C7-ANE; | FE=031 |
| 70.18 | 681 VV 93.407 | KI= 701.8; | FE=032 |
| 70.51 | 670 VV 123.404 | KI= 705.0; | FE=033 |
| 70.80 | 1028 VB 119.909 | KI= 708.0; | FE=035 |
| 71.25 | 92241 VV 111.555 | KI= 712.5; | FE=036 |
| 71.56 | 8329 VV 111.297 | KI= 715.6; | FE=037 |
| 71.91 | 5982 BB 110.428 | KI= 719.1; | FE=038 |
| 72.58 | 9375 BB 111.565 | KI= 725.8; | FE=039 |
| 73.00 | 13897 BV 111.549 | KI= 730.0; | FE=040 |
| 73.10 | 23418 VV 111.022 | KI= 731.0; | FE=041 |
| 73.36 | 9329 VV 111.355 | KI= 733.6; | FE=042 |
| 73.50 | 8431 VB 111.319 | KI= 735.0; | FE=043 |
| 74.12 | 9021 BV 111.710 | KI= 741.2; | FE=044 |

| | | | | | |
|-------|------|----|---------|------------|--------|
| 74.33 | 2881 | VV | 111.945 | KI= 743.3; | FE=045 |
| 74.54 | 2694 | BV | 118.480 | KI= 745.4; | FE=046 |
| 74.99 | 763 | BB | 110.662 | KI= 749.9; | FE=047 |

REPORT: 7.23 (CONTINUED) PAGE: 2 AMT. REL. TO REF. FUEL

| RT | AREA | % REL. | NAME | |
|-------|--------|--------|---------|------------------------|
| 75.39 | 3411 | BB | 110.005 | KI= 753.9; FE=048 |
| 75.71 | 24650 | BV | 110.739 | KI= 757.1; FE=049 |
| 75.87 | 48979 | VV | 110.717 | KI= 758.8; FE=050 |
| 76.20 | 1641 | BV | 106.117 | KI= 762.0; FE=051 |
| 76.53 | 103187 | BV | 110.999 | KI= 765.3; FE=052 |
| 76.63 | 40231 | VV | 110.577 | KI= 766.4; FE=053 |
| 76.88 | 26884 | VV | 111.078 | KI= 768.8; FE=054 |
| 77.06 | 14501 | VV | 111.054 | KI= 770.6; FE=055 |
| 77.23 | 117029 | VV | 110.809 | KI= 772.4; FE=056 |
| 77.52 | 4803 | BV | 110.348 | KI= 775.2; FE=057 |
| 78.10 | 6558 | BV | 111.491 | KI= 781.0; FE=058 |
| 78.31 | 4029 | VV | 112.642 | KI= 783.2; FE=059 |
| 78.43 | 7339 | VV | 110.900 | KI= 784.4; FE=060 |
| 78.54 | 799 | VV | 108.120 | KI= 785.4; FE=061 |
| 78.69 | 14981 | BV | 113.035 | KI= 786.9; FE=062 |
| 79.44 | 3437 | VV | 106.526 | KI= 794.4; FE=064 |
| 79.57 | 8290 | BV | 109.041 | KI= 795.7; FE=065 |
| 80.00 | 155096 | BV | 110.418 | \$800-n-C8-ANE; FE=066 |
| 80.26 | 537 | BV | 106.026 | KI= 802.5; FE=067 |
| 80.57 | 739 | BV | 109.502 | KI= 805.7; FE=068 |
| 80.71 | 1407 | VV | 112.030 | KI= 807.1; FE=069 |
| 80.89 | 519 | BV | 105.720 | KI= 808.9; FE=070 |
| 81.23 | 3229 | BV | 109.542 | KI= 812.3; FE=071 |
| 81.36 | 1565 | VV | 108.768 | KI= 813.6; FE=072 |
| 81.71 | 5224 | VV | 110.619 | KI= 817.0; FE=073 |
| 81.81 | 4674 | VV | 111.069 | KI= 818.2; FE=074 |
| 82.13 | 12981 | VV | 112.442 | KI= 821.3; FE=075 |
| 82.42 | 22348 | VV | 116.738 | KI= 824.2; FE=076 |
| 82.52 | 6300 | ++ | 123.420 | KI= 825.7; FE=077 |
| 82.81 | 32506 | VV | 111.365 | KI= 828.1; FE=078 |
| 83.44 | 36176 | BV | 110.264 | KI= 834.4; FE=079 |
| 83.71 | 1359 | BV | 107.614 | KI= 837.0; FE=080 |
| 84.08 | 1198 | BV | 106.567 | KI= 840.8; FE=081 |
| 84.27 | 11895 | VV | 110.311 | KI= 842.7; FE=082 |
| 84.43 | 3396 | VV | 109.459 | KI= 844.2; FE=083 |
| 84.62 | 1433 | VV | 107.616 | KI= 846.2; FE=084 |
| 84.82 | 719 | BV | 105.059 | KI= 848.2; FE=085 |
| 85.28 | 988 | BV | 108.662 | KI= 852.8; FE=087 |
| 85.44 | 26449 | VV | 110.205 | KI= 854.4; FE=088 |
| 85.61 | 10082 | VV | 109.901 | KI= 856.1; FE=089 |
| 86.00 | 6197 | VV | 107.191 | KI= 860.0; FE=090 |
| 86.21 | 47233 | VV | 109.547 | KI= 862.2; FE=091 |
| 86.38 | 3.282 | VV | 108.936 | KI= 863.8; FE=092 |
| 86.50 | 36010 | VV | 107.646 | KI= 865.0; FE=093 |
| 86.75 | 837 | BV | 44.637 | KI= 867.4; FE=094 |
| 86.95 | 7344 | BV | 96.415 | KI= 869.5; FE=095 |
| 87.12 | 40608 | VV | 107.703 | KI= 871.2; FE=096 |
| 87.31 | 1653 | BV | 85.443 | KI= 873.1; FE=097 |
| 87.71 | 2322 | BV | 107.601 | KI= 877.1; FE=098 |
| 88.00 | 16570 | VV | 110.149 | KI= 880.0; FE=099 |
| 88.15 | 6426 | VV | 109.390 | KI= 881.6; FE=100 |
| 88.45 | 20997 | VV | 111.238 | KI= 884.5; FE=102 |
| 88.73 | 1646 | BV | 103.278 | KI= 887.4; FE=103 |

| | | | |
|-------|-----------------|------------|--------|
| 89.09 | 1460 BV 103.235 | KI= 890.9: | FE=104 |
| 89.26 | 824 VV 101.402 | KI= 892.6: | FE=105 |
| 89.46 | 2364 VV 106.036 | KI= 894.6: | FE=106 |

REPORT: 7.23 (CONTINUED) PAGE: 3 AMT. REL. TO REF. FUEL

| RT | AREA | % REL. | NAME | |
|--------|------------------|-------------------|--------|--|
| 89.59 | 2304 VV 105.348 | KI= 895.9: | FE=107 | |
| 89.76 | 4588 VV 106.241 | KI= 897.6: | FE=108 | |
| 90.00 | 92413 VV 109.447 | \$900-n-C9-ANE: | FE=109 | |
| 90.13 | 756 VB 92.929 | KI= 91.1.3: | FE=110 | |
| 90.84 | 6545 BV 107.563 | KI= 908.4: | FE=112 | |
| 91.08 | 3850 VB 103.875 | KI= 910.8: | FE=113 | |
| 91.39 | 2051 BV 98.721 | KI= 913.9: | FE=114 | |
| 91.53 | 1641 VV 105.649 | KI= 915.4: | FE=115 | |
| 91.79 | 9214 VV 108.003 | KI= 917.7: | FE=116 | |
| 92.00 | 2564 VV 104.511 | KI= 920.1: | FE=117 | |
| 92.26 | 12322 VV 108.963 | KI= 922.6: | FE=118 | |
| 92.47 | 6797 VV 108.572 | KI= 924.7: | FE=119 | |
| 92.91 | 10281 VV 111.703 | KI= 929.1: | FE=120 | |
| 93.35 | 2264 VV 116.914 | KI= 933.5: | FE=122 | |
| 93.95 | 17165 VV 131.555 | KI= 939.4: | FE=123 | |
| 94.53 | 8016 VV 114.924 | KI= 945.3: | FE=125 | |
| 94.74 | 7281 VV 111.741 | KI= 947.4: | FE=126 | |
| 95.21 | 4675 VV 107.524 | KI= 952.0: | FE=127 | |
| 95.35 | 8297 VV 106.822 | KI= 953.5: | FE=128 | |
| 95.58 | 23100 VV 106.427 | KI= 955.8: | FE=129 | |
| 95.68 | 7612 VV 99.795 | KI= 956.8: | FE=130 | |
| 96.05 | 4613 VV 96.766 | KI= 960.5: | FE=131 | |
| 96.21 | 24681 VV 102.028 | KI= 962.1: | FE=132 | |
| 96.47 | 11912 VV 90.433 | KI= 964.7: | FE=133 | |
| 96.74 | 2788 BV 41.712 | KI= 967.4: | FE=135 | |
| 97.09 | 13040 VV 106.928 | KI= 970.8: | FE=136 | |
| 97.27 | 8641 VV 105.702 | KI= 972.7: | FE=137 | |
| 97.49 | 566 VV 85.519 | KI= 974.9: | FE=138 | |
| 97.69 | 8183 VV 105.646 | KI= 976.9: | FE=139 | |
| 97.92 | 7379 VV 114.216 | KI= 979.2: | FE=140 | |
| 98.17 | 2919 VV 103.953 | KI= 981.7: | FE=142 | |
| 98.32 | 1163 VV 99.089 | KI= 983.3: | FE=143 | |
| 98.62 | 40786 VV 109.446 | KI= 986.2: | FE=144 | |
| 98.89 | 4594 VV 105.738 | KI= 989.0: | FE=145 | |
| 99.35 | 5288 VV 119.495 | KI= 993.5: | FE=146 | |
| 99.53 | 1623 VV 129.133 | KI= 995.3: | FE=147 | |
| 99.68 | 1326 VV 110.218 | KI= 996.8: | FE=148 | |
| 100.00 | 74820 VV 110.393 | \$1000-n-C10-ANE: | FE=149 | |
| 100.39 | 3959 VB 110.728 | KI=1003.9: | FE=150 | |
| 100.89 | 2434 BV 258.607 | KI=1009.0: | FE=151 | |
| 101.18 | 531 VV .112 | | | |
| 101.39 | 21753 VV 116.816 | KI=1013.9: | FE=152 | |
| 101.70 | 8262 VV 120.478 | KI=1017.0: | FE=153 | |
| 101.92 | 2802 VV 107.937 | KI=1019.3: | FE=154 | |
| 102.01 | 4011 VV 81.853 | KI=1020.1: | FE=155 | |
| 102.29 | 17275 VV 113.436 | KI=1022.9: | FE=156 | |
| 102.58 | 12569 VV 114.327 | KI=1025.8: | FE=157 | |
| 102.84 | 8609 VV 123.457 | KI=1028.4: | FE=158 | |
| 103.16 | 5575 VV 134.796 | KI=1031.6: | FE=159 | |
| 103.33 | 2229 VV 130.205 | KI=1033.4: | FE=160 | |
| 103.46 | 4682 VV 135.043 | KI=1034.6: | FE=161 | |
| 103.66 | 2217 VV 144.745 | KI=1036.6: | FE=162 | |
| 103.85 | 5024 VV 131.229 | KI=1038.5: | FE=163 | |

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| 104.06 | 1489 VV 169.744 | KI=1040.6; | FE=164 |
| 104.32 | 8529 VV 127.188 | KI=1043.2; | FE=165 |
| 104.47 | 3341 VV 135.710 | KI=1044.7; | FE=166 |

REPORT: 7.23 (CONTINUED) PAGE: 4 AMT. REL. TO REF. FUEL

| RT | AREA | % REL. | NAME | |
|--------|------------------|-------------------|--------|--|
| 104.64 | 13268 VV 124.723 | KI=1046.4; | FE=167 | |
| 104.94 | 5265 VV 135.479 | KI=1049.4; | FE=168 | |
| 105.06 | 8487 VV 136.422 | KI=1050.6; | FE=169 | |
| 105.38 | 10556 VV 123.849 | KI=1053.8; | FE=170 | |
| 105.52 | 2543 VV 145.094 | KI=1055.3; | FE=171 | |
| 105.79 | 9084 VV 129.947 | KI=1057.9; | FE=173 | |
| 106.06 | 12550 VV 113.337 | KI=1060.8; | FE=174 | |
| 106.46 | 14265 VV 110.357 | KI=1064.6; | FE=175 | |
| 106.62 | 3483 VV 109.673 | KI=1066.2; | FE=176 | |
| 107.06 | 18570 VV 110.095 | KI=1070.6; | FE=177 | |
| 107.27 | 10455 VV 110.355 | KI=1072.8; | FE=178 | |
| 107.90 | 17833 VV 110.276 | KI=1079.0; | FE=179 | |
| 108.16 | 4786 VV 110.424 | KI=1081.6; | FE=180 | |
| 108.43 | 5634 VV 111.716 | KI=1084.3; | FE=181 | |
| 108.71 | 3408 VV 109.826 | KI=1087.2; | FE=182 | |
| 108.94 | 2634 VV 110.584 | KI=1089.4; | FE=183 | |
| 109.08 | 2966 VV 111.693 | KI=1090.8; | FE=184 | |
| 109.38 | 1467 VV 113.376 | KI=1093.8; | FE=185 | |
| 109.59 | 5306 VV 110.545 | KI=1096.0; | FE=186 | |
| 110.00 | 89668 VV 111.079 | \$1100-n-C11-ANE; | FE=187 | |
| 110.45 | 2834 VV 112.745 | KI=1104.4; | FE=189 | |
| 110.66 | 591 VV 105.039 | KI=1106.6; | FE=190 | |
| 110.84 | 5976 VV 122.291 | KI=1108.4; | FE=191 | |
| 111.03 | 1833 VV 133.082 | KI=1110.3; | FE=192 | |
| 111.25 | 11318 VV 117.572 | KI=1112.6; | FE=193 | |
| 111.57 | 9839 VV 114.398 | KI=1115.8; | FE=194 | |
| 111.77 | 4571 VV 113.976 | KI=1117.7; | FE=195 | |
| 111.97 | 695 VV 109.644 | KI=1119.7; | FE=196 | |
| 112.34 | 1594 BV 98.974 | KI=1123.4; | FE=198 | |
| 112.70 | 6074 VV 104.525 | KI=1127.0; | FE=199 | |
| 112.94 | 8886 VV 99.333 | KI=1129.4; | FE=200 | |
| 113.26 | 524 BV 29.749 | KI=1132.7; | FE=201 | |
| 113.50 | 1199 BV 59.169 | KI=1135.0; | FE=203 | |
| 113.71 | 866 VV 60.806 | KI=1137.1; | FE=204 | |
| 113.97 | 5489 VV 99.008 | KI=1139.7; | FE=205 | |
| 114.10 | 4727 VV 101.980 | KI=1141.0; | FE=206 | |
| 114.40 | 8427 VV 104.433 | KI=1144.0; | FE=207 | |
| 114.83 | 4274 VV 106.704 | KI=1148.3; | FE=208 | |
| 114.98 | 1857 VV 105.580 | KI=1149.8; | FE=209 | |
| 115.26 | 7384 VV 108.850 | KI=1152.6; | FE=210 | |
| 115.50 | 4145 VV 111.959 | KI=1155.0; | FE=211 | |
| 115.61 | 8671 VV 105.994 | KI=1156.1; | FE=212 | |
| 115.80 | 1207 VV 112.520 | KI=1158.0; | FE=213 | |
| 115.98 | 8445 VV 110.040 | KI=1159.8; | FE=214 | |
| 116.17 | 2277 VV 114.399 | KI=1161.8; | FE=215 | |
| 116.42 | 15815 VV 111.088 | KI=1164.2; | FE=216 | |
| 117.04 | 22925 VV 166.413 | KI=1170.4; | FE=217 | |
| 117.58 | 3342 VV 146.738 | KI=1175.9; | FE=219 | |
| 117.96 | 4319 VV 125.783 | KI=1179.7; | FE=220 | |
| 118.15 | 5206 VV 116.933 | KI=1181.4; | FE=221 | |
| 118.53 | 12081 VV 117.048 | KI=1185.3; | FE=222 | |
| 118.96 | 5958 VV 115.805 | KI=1189.6; | FE=223 | |
| 119.15 | 4854 VV 113.612 | KI=1191.5; | FE=224 | |

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| 119.39 | 6556 VV 125.200 | KI=1193.9; | FE=225 |
| 120.00 | 72724 VV 110.130 | \$1200-n-C12-ANE; | FE=227 |
| 120.34 | 3368 VV 143.652 | KI=1203.4; | FE=228 |

REPORT: 7.23 (CONTINUED) PAGE: 5 AMT. REL. TO REF. FUEL

| RT | AREA | % REL. | NAME |
|--------|------------------|-------------------|--------|
| 120.56 | 3314 VV 182.528 | KI=1205.6; | FE=229 |
| 121.10 | 5509 VV 152.548 | KI=1210.9; | FE=231 |
| 121.42 | 24112 VV 117.775 | KI=1214.2; | FE=232 |
| 121.81 | 4912 VV 259.549 | KI=1218.2; | FE=233 |
| 122.18 | 3087 VV 174.001 | KI=1221.7; | FE=235 |
| 122.44 | 2088 VV 128.422 | KI=1224.3; | FE=236 |
| 122.79 | 5628 VV 112.422 | KI=1227.8; | FE=237 |
| 123.38 | 11450 VV 115.092 | KI=1233.9; | FE=238 |
| 123.87 | 7101 VV 115.015 | KI=1238.6; | FE=239 |
| 124.17 | 3328 VV 112.142 | KI=1241.7; | FE=240 |
| 124.54 | 2592 VV 113.409 | KI=1245.4; | FE=241 |
| 124.86 | 4732 VV 114.618 | KI=1248.5; | FE=242 |
| 125.28 | 6520 VV 111.249 | KI=1252.8; | FE=243 |
| 125.48 | 9723 VV 109.993 | KI=1254.8; | FE=244 |
| 125.93 | 7507 VV 110.266 | KI=1259.3; | FE=245 |
| 126.40 | 9739 VV 109.516 | KI=1264.0; | FE=246 |
| 126.76 | 3599 VV 114.179 | KI=1267.6; | FE=247 |
| 127.03 | 6540 VV 109.885 | KI=1270.2; | FE=248 |
| 127.32 | 19729 VV 109.499 | KI=1273.1; | FE=249 |
| 128.26 | 10616 BV 106.708 | KI=1282.7; | FE=253 |
| 128.57 | 1813 VV 103.773 | KI=1285.6; | FE=254 |
| 128.85 | 577 VV 62.684 | KI=1288.3; | FE=255 |
| 129.43 | 2131 BV 101.522 | KI=1294.2; | FE=256 |
| 130.00 | 61407 VV 109.274 | \$1300-n-C13-ANE; | FE=257 |
| 130.96 | 3257 BV 102.966 | KI=1309.6; | FE=259 |
| 131.17 | 2245 VB 81.322 | KI=1311.5; | FE=260 |
| 131.80 | 3552 BV 51.713 | KI=1318.0; | FE=262 |
| 132.33 | 1458 VV 73.306 | KI=1323.1; | FE=263 |
| 132.80 | 3454 VV 148.211 | KI=1328.0; | FE=264 |
| 133.34 | 2000 VV 96.401 | KI=1333.4; | FE=265 |
| 133.84 | 2770 BV 72.743 | KI=1338.4; | FE=266 |
| 134.23 | 1047 VV 88.777 | KI=1342.2; | FE=267 |
| 134.76 | 1006 VV 128.470 | KI=1347.5; | FE=269 |
| 135.12 | 4386 VV 115.826 | KI=1351.1; | FE=270 |
| 135.40 | 2199 VV 111.202 | KI=1354.0; | FE=271 |
| 135.89 | 3783 VB 105.044 | KI=1358.9; | FE=272 |
| 136.40 | 6916 BB 110.455 | KI=1364.0; | FE=273 |
| 137.03 | 3580 BV 104.619 | KI=1370.3; | FE=274 |
| 137.67 | 9993 BV 107.451 | KI=1376.7; | FE=275 |
| 138.29 | 1856 BB 101.266 | KI=1383.0; | FE=276 |
| 138.85 | 1614 BV 111.129 | KI=1388.6; | FE=277 |
| 139.34 | 6479 VV 106.847 | KI=1393.4; | FE=278 |
| 140.00 | 29058 BV 106.828 | \$1400-n-C14-ANE; | FE=279 |
| 140.40 | 1381 VV 105.108 | KI=1404.0; | FE=280 |
| 140.78 | 4556 VV 112.385 | KI=1407.9; | FE=281 |
| 141.10 | 4357 VV 122.634 | KI=1411.1; | FE=282 |
| 141.35 | 1164 VV 189.101 | KI=1413.6; | FE=283 |
| 141.60 | 1140 VB .240 | | |
| 142.71 | 2288 BV 140.423 | KI=1427.2; | FE=284 |
| 143.03 | 706 VB 106.933 | KI=1430.3; | FE=287 |
| 143.41 | 557 BB 105.633 | KI=1434.1; | FE=288 |
| 144.31 | 1357 BV 99.509 | KI=1443.2; | FE=289 |
| 145.04 | 869 VV 69.810 | KI=1450.5; | FE=291 |

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|--------|-----------------|------------|--------|
| 145.35 | 1203 VV 127.324 | KI=1453.4; | FE=292 |
| 145.88 | 1620 VV 117.178 | KI=1458.7; | FE=293 |
| 146.27 | 7022 VB 110.864 | KI=1462.7; | FE=294 |

REPORT: 7.23 (CONTINUED) PAGE: 6 AMT. REL. TO REF. FUEL

| RT | AREA | % REL. | NAME |
|--------|-----------------|-------------------------|--------|
| 147.08 | 1530 BB 107.298 | KI=1470.7; | FE=295 |
| 150.00 | 8346 BB 108.149 | \$1500-n-C15-ANE;FE=296 | |
| 160.00 | 1330 BB 108.278 | \$1600-n-C16-ANE;FE=297 | |
| 177.16 | 52286 BB | &ANTH-d10(IS)(KI=1772) | |
| 211.80 | 4562 BB 99.189 | \$2118-(IMPURITY #3) | |

TOTAL AREA = 20338780 TOTAL % REL. = 30320.445

PROCESSED DATA FILE: BIP162 RAW DATA FILE: DFR162

REPORT: 8.43 CHANNEL: 12

AMT. REL. TO REF. FUEL

SAMPLE: 607JP4MEC02 INJECTED AT 8:13:53 ON MAY 24, 1983

ISTD METHOD: DPPCNT BTL: 13

ACTUAL RUN TIME: 540.000 MINUTES

ISTD-RATIO: 10.000 % REL. STD-AMT: 10.0000 SAMP-AMT: 1.0000

| RT | AREA | % REL. | NAME |
|-------|-------------------|------------------------|--------|
| 37.74 | 646 VV 105.556 | KI= 377.2; | FE=001 |
| 38.81 | 2399 VV 113.337 | KI= 388.0; | FE=002 |
| 40.00 | 7594 VV 112.920 | \$400-n-C4-ANE; | FE=003 |
| 45.74 | 33257 VV 112.263 | KI= 457.6; | FE=004 |
| 50.00 | 50615 VV 112.306 | \$500-n-C5-ANE; | FE=005 |
| 50.70 | 1009 VV 149.934 | KI= 507.0; | FE=006 |
| 51.43 | 1169 VV 166.380 | KI= 514.3; | FE=008 |
| 52.01 | 4469 VV 114.776 | KI= 520.1; | FE=009 |
| 52.66 | 17987276 ++ 0.000 | CH2CL2 SOLVENT | |
| 54.94 | 7936 VV 109.997 | KI= 549.7; | FE=010 |
| 55.20 | 9633 VV 110.857 | KI= 552.4; | FE=011 |
| 55.81 | 1118 BV 134.485 | IMPURITY #1(KI= 558.6) | |
| 56.00 | 58420 VV 112.662 | KI= 560.4; | FE=012 |
| 57.68 | 40405 VV 112.270 | KI= 577.3; | FE=013 |
| 60.00 | 98952 VV 112.236 | \$600-n-C6-ANE; | FE=014 |
| 61.12 | 680 BB 112.945 | KI= 611.2; | FE=016 |
| 61.40 | 1210 BV 128.434 | KI= 613.9; | FE=017 |
| 62.48 | 52494 VV 111.995 | KI= 624.8; | FE=018 |
| 62.72 | 679 BV 113.709 | KI= 627.3; | FE=019 |
| 63.24 | 10125 BV 111.381 | KI= 632.4; | FE=020 |
| 65.29 | 5859 BV 112.504 | KI= 653.0; | FE=021 |
| 65.60 | 49745 BB 112.086 | KI= 656.1; | FE=022 |
| 65.88 | 21015 BB 103.329 | KI= 658.8; | FE=023 |
| 66.91 | 29375 VV 113.446 | KI= 669.0; | FE=024 |
| 67.05 | 70773 VB 111.383 | KI= 670.4; | FE=025 |
| 67.45 | 4308 BV 102.835 | IMPURITY #2(KI= 674.4) | |
| 67.76 | 85838 VV 112.086 | KI= 677.4; | FE=026 |
| 67.99 | 15284 VV 111.973 | KI= 679.8; | FE=027 |
| 68.21 | 14645 VV 111.910 | KI= 682.0; | FE=028 |
| 68.47 | 26588 VV 112.130 | KI= 684.6; | FE=029 |
| 68.59 | 8274 VB 112.088 | KI= 685.8; | FE=030 |
| 70.00 | 156508 BV 112.075 | \$700-n-C7-ANE; | FE=031 |
| 70.18 | 995 VV 127.699 | KI= 701.8; | FE=032 |
| 70.50 | 642 BV 110.657 | KI= 705.0; | FE=033 |
| 70.81 | 759 BB 82.879 | KI= 708.0; | FE=035 |
| 71.25 | 8970 BV 112.031 | KI= 712.5; | FE=036 |
| 71.56 | 8965 VB 112.126 | KI= 715.6; | FE=037 |
| 71.91 | 6408 BB 110.722 | KI= 719.1; | FE=038 |
| 72.57 | 10041 BB 111.841 | KI= 725.8; | FE=039 |
| 73.00 | 14916 BV 112.067 | KI= 730.0; | FE=040 |
| 73.09 | 25136 VV 111.539 | KI= 731.0; | FE=041 |
| 73.36 | 10022 VV 111.972 | KI= 733.6; | FE=042 |
| 73.50 | 9038 VB 111.693 | KI= 735.0; | FE=043 |

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|-------|-----------------|------------|--------|
| 74.12 | 9672 BV :12.110 | KI= 741.2: | FE=044 |
| 74.33 | 3106 VV 112.960 | KI= 743.3: | FE=045 |
| 74.53 | 2870 VB 118.143 | KI= 745.4: | FE=046 |

REPORT: 8.43 (CONTINUED) PAGE: 2 AMT. REL. TO REF. FUEL

| RT | AREA | % REL. | NAME | |
|-------|-------------------|-----------------|--------|--|
| 74.99 | 943 BB 128.092 | KI= 749.9: | FE=047 | |
| 75.38 | 3723 BV 112.367 | KI= 753.9: | FE=048 | |
| 75.71 | 26565 VV 111.703 | KI= 757.1: | FE=049 | |
| 75.87 | 52640 VV 111.377 | KI= 758.8: | FE=050 | |
| 76.19 | 1744 VB 105.602 | KI= 762.0: | FE=051 | |
| 76.53 | 111046 PV 111.808 | KI= 765.3: | FE=052 | |
| 76.64 | 43168 VV 111.056 | KI= 766.4: | FE=053 | |
| 76.88 | 28891 VV 111.731 | KI= 768.8: | FE=054 | |
| 77.06 | 15591 VV 111.760 | KI= 770.6: | FE=055 | |
| 77.24 | 125839 VV 111.525 | KI= 772.4: | FE=056 | |
| 77.52 | 5162 VB 111.006 | KI= 775.2: | FE=057 | |
| 78.10 | 7021 BV 111.719 | KI= 781.0: | FE=058 | |
| 78.31 | 4309 VV 112.759 | KI= 783.2: | FE=059 | |
| 78.43 | 8719 VV 123.327 | KI= 784.4: | FE=060 | |
| 78.68 | 16018 VB 113.120 | KI= 786.9: | FE=062 | |
| 79.10 | 522 BV 100.542 | KI= 791.1: | FE=063 | |
| 79.44 | 3711 VV 107.670 | KI= 794.4: | FE=064 | |
| 79.56 | 8777 VV 108.058 | KI= 795.7: | FE=065 | |
| 80.00 | 166851 BV 111.184 | \$800-n-C8-ANE: | FE=066 | |
| 80.25 | 590 VB 109.079 | KI= 802.5: | FE=067 | |
| 80.56 | 781 BV 108.727 | KI= 805.7: | FE=068 | |
| 80.71 | 1504 VV 112.056 | KI= 807.1: | FE=069 | |
| 80.88 | 542 VB 103.361 | KI= 808.9: | FE=070 | |
| 81.23 | 3457 BV 109.774 | KI= 812.3: | FE=071 | |
| 81.36 | 1651 VB 107.369 | KI= 813.6: | FE=072 | |
| 81.70 | 5512 BV 109.237 | KI= 817.0: | FE=073 | |
| 81.81 | 4488 VV 99.822 | KI= 818.2: | FE=074 | |
| 82.13 | 12859 VV 104.249 | KI= 821.3: | FE=075 | |
| 82.41 | 18428 VV 90.103 | KI= 824.2: | FE=076 | |
| 82.60 | 1019 BV 18.686 | KI= 825.7: | FE=077 | |
| 82.81 | 33529 VV 107.521 | KI= 828.1: | FE=078 | |
| 83.44 | 38927 BV 111.055 | KI= 834.4: | FE=079 | |
| 83.70 | 1459 VB 108.098 | KI= 837.0: | FE=080 | |
| 84.08 | 1300 BV 108.244 | KI= 840.8: | FE=081 | |
| 84.26 | 12781 VV 110.934 | KI= 842.7: | FE=082 | |
| 84.42 | 3648 VV 110.050 | KI= 844.2: | FE=083 | |
| 84.62 | 1524 VV 107.152 | KI= 846.2: | FE=084 | |
| 84.82 | 769 VB 105.121 | KI= 848.2: | FE=085 | |
| 85.09 | 521 BB 96.758 | KI= 850.9: | FE=086 | |
| 85.28 | 1061 BV 109.199 | KI= 852.8: | FE=087 | |
| 85.44 | 28462 VV 111.003 | KI= 854.4: | FE=088 | |
| 85.61 | 10835 VV 110.545 | KI= 856.1: | FE=089 | |
| 86.00 | 6820 VV 110.414 | KI= 860.0: | FE=090 | |
| 86.21 | 51743 VV 112.325 | KI= 862.2: | FE=091 | |
| 86.38 | 33484 VV 109.136 | KI= 863.8: | FE=092 | |
| 86.50 | 39802 VV 111.367 | KI= 865.0: | FE=093 | |
| 86.74 | 2208 VV 110.190 | KI= 867.4: | FE=094 | |
| 86.95 | 9167 VV 112.638 | KI= 869.5: | FE=095 | |
| 87.12 | 44746 VV 111.082 | KI= 871.2: | FE=096 | |
| 87.31 | 2371 VV 114.686 | KI= 873.1: | FE=097 | |
| 87.71 | 2545 VV 110.407 | KI= 877.1: | FE=098 | |
| 87.99 | 17806 VV 110.792 | KI= 880.0: | FE=099 | |
| 88.15 | 6996 VV 111.471 | KI= 881.6: | FE=100 | |

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|-------|-------|----|---------|------------|--------|
| 88.44 | 22625 | VV | 112.193 | KI= 884.51 | FE=102 |
| 88.73 | 1783 | VB | 104.760 | KI= 887.41 | FE=103 |
| 89.08 | 1600 | BV | 105.907 | KI= 890.91 | FE=104 |

REPORT: 8.43 (CONTINUED) PAGE: 3 AMT. REL. TO REF. FUEL

| RT | AREA | % REL. | NAME | | |
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| 89.26 | 926 | VV | 106.682 | KI= 892.61 | FE=105 |
| 89.45 | 2632 | VV | 110.557 | KI= 894.61 | FE=106 |
| 89.59 | 2553 | VV | 109.251 | KI= 895.91 | FE=107 |
| 89.76 | 5101 | VV | 110.543 | KI= 897.61 | FE=108 |
| 90.00 | 100743 | VV | 111.676 | \$1000-n-C9-ANE1 | FE=109 |
| 90.84 | 7016 | VV | 107.916 | KI= 908.41 | FE=112 |
| 91.08 | 4198 | VB | 106.014 | KI= 910.81 | FE=113 |
| 91.39 | 2222 | BV | 100.069 | KI= 913.91 | FE=114 |
| 91.53 | 1736 | VV | 104.597 | KI= 915.41 | FE=115 |
| 91.76 | 9954 | VV | 109.217 | KI= 917.71 | FE=116 |
| 92.00 | 2761 | VV | 105.312 | KI= 920.11 | FE=117 |
| 92.26 | 13267 | VV | 109.818 | KI= 922.61 | FE=118 |
| 92.47 | 7349 | VV | 109.880 | KI= 924.71 | FE=119 |
| 92.91 | 11121 | VV | 113.099 | KI= 929.11 | FE=120 |
| 93.35 | 24460 | VV | 118.191 | KI= 933.51 | FE=122 |
| 93.94 | 18555 | VV | 133.108 | KI= 939.41 | FE=123 |
| 94.52 | 8660 | VV | 116.205 | KI= 945.31 | FE=125 |
| 94.74 | 7875 | VB | 113.118 | KI= 947.41 | FE=126 |
| 95.20 | 5177 | BV | 111.447 | KI= 952.01 | FE=127 |
| 95.35 | 9328 | VV | 112.407 | KI= 953.51 | FE=128 |
| 95.57 | 25208 | VV | 108.707 | KI= 955.81 | FE=129 |
| 95.68 | 9586 | VV | 117.641 | KI= 956.81 | FE=130 |
| 96.04 | 6192 | VV | 121.578 | KI= 960.51 | FE=131 |
| 96.21 | 29763 | VV | 115.162 | KI= 962.11 | FE=132 |
| 96.47 | 17586 | VV | 124.963 | KI= 964.71 | FE=133 |
| 96.60 | 2022 | VV | 107.122 | KI= 966.11 | FE=134 |
| 96.74 | 7777 | VV | 108.893 | KI= 967.41 | FE=135 |
| 97.08 | 14730 | VV | 113.062 | KI= 970.81 | FE=136 |
| 97.27 | 9895 | VV | 113.301 | KI= 972.71 | FE=137 |
| 97.49 | 934 | VV | 132.006 | KI= 974.91 | FE=138 |
| 97.69 | 9417 | VV | 113.794 | KI= 976.91 | FE=139 |
| 97.92 | 8543 | VV | 123.770 | KI= 979.21 | FE=140 |
| 98.16 | 3415 | VV | 113.823 | KI= 981.71 | FE=142 |
| 98.33 | 1557 | VV | 124.162 | KI= 983.31 | FE=143 |
| 98.62 | 44456 | VV | 111.457 | KI= 986.21 | FE=144 |
| 98.90 | 5330 | VV | 114.822 | KI= 989.01 | FE=145 |
| 99.35 | 6129 | VV | 129.625 | KI= 993.51 | FE=146 |
| 99.52 | 1921 | VV | 143.087 | KI= 995.31 | FE=147 |
| 99.67 | 1490 | VV | 116.524 | KI= 996.81 | FE=148 |
| 100.00 | 80933 | VV | 111.769 | \$1000-n-C10-ANE1 | FE=149 |
| 100.38 | 4322 | VB | 113.129 | KI=1003.91 | FE=150 |
| 100.89 | 2038 | BV | 202.691 | KI=1009.01 | FE=151 |
| 101.38 | 20696 | VV | 104.028 | KI=1013.91 | FE=152 |
| 101.70 | 5419 | VV | 73.963 | KI=1017.01 | FE=153 |
| 102.01 | 989 | BV | 18.891 | KI=1020.11 | FE=155 |
| 102.28 | 16654 | VV | 102.364 | KI=1022.91 | FE=156 |
| 102.57 | 13075 | VV | 111.316 | KI=1025.81 | FE=157 |
| 102.83 | 8900 | VV | 119.453 | KI=1028.41 | FE=158 |
| 103.16 | 5643 | VV | 127.715 | KI=1031.61 | FE=159 |
| 103.33 | 2324 | VV | 127.042 | KI=1033.41 | FE=160 |
| 103.45 | 4764 | VV | 128.614 | KI=1034.61 | FE=161 |
| 103.65 | 2224 | VV | 135.910 | KI=1036.61 | FE=162 |
| 103.85 | 5205 | VV | 127.254 | KI=1038.51 | FE=163 |

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|--------|-----------------|------------|--------|
| 104.06 | 1432 VV 152.779 | KI=1040.61 | FE=164 |
| 104.32 | 9019 VV 125.876 | KI=1043.21 | FE=165 |
| 104.47 | 3466 VV 131.748 | KI=1044.71 | FE=166 |

REPORT: 8.43 (CONTINUED) PAGE: 4 AMT. REL. TO REF. FUEL

| RT | AREA | % REL. | NAME | |
|--------|------------------|--------------------------|--------|--|
| 104.63 | 14119 VV 124.224 | KI=1046.41 | FE=167 | |
| 104.94 | 5845 VV 140.774 | KI=1049.41 | FE=168 | |
| 105.06 | 8705 VV 130.972 | KI=1050.61 | FE=169 | |
| 105.37 | 11253 VV 123.577 | KI=1053.81 | FE=170 | |
| 105.52 | 1770 VV 94.542 | KI=1055.31 | FE=171 | |
| 105.62 | 940 VV .85 | | | |
| 105.79 | 9715 VV 130.074 | KI=1057.91 | FE=173 | |
| 106.08 | 13547 VV 114.511 | KI=1060.81 | FE=174 | |
| 106.45 | 15316 VV 110.907 | KI=1064.61 | FE=175 | |
| 106.62 | 3767 VV 111.031 | KI=1066.21 | FE=176 | |
| 107.06 | 20054 VV 111.289 | KI=1070.61 | FE=177 | |
| 107.27 | 11157 VV 110.219 | KI=1072.81 | FE=178 | |
| 107.90 | 19191 VV 111.081 | KI=1079.01 | FE=179 | |
| 108.16 | 5110 VV 110.338 | KI=1081.61 | FE=180 | |
| 108.43 | 5953 VV 110.478 | KI=1084.31 | FE=181 | |
| 108.71 | 3725 VV 112.348 | KI=1087.21 | FE=182 | |
| 108.94 | 2884 VV 113.344 | KI=1089.41 | FE=183 | |
| 109.07 | 3097 VV 109.168 | KI=1090.81 | FE=184 | |
| 109.39 | 1539 VV 112.761 | KI=1093.81 | FE=185 | |
| 109.59 | 5668 VV 110.530 | KI=1096.01 | FE=186 | |
| 110.00 | 96547 VV 111.946 | \$1100-n-C11-ANE; FE=187 | | |
| 110.44 | 3009 VV 112.038 | KI=1104.41 | FE=189 | |
| 110.66 | 623 VV 103.702 | KI=1106.61 | FE=190 | |
| 110.84 | 6458 VV 123.699 | KI=1108.41 | FE=191 | |
| 111.02 | 1911 VV 129.903 | KI=1110.31 | FE=192 | |
| 111.25 | 12288 VV 119.476 | KI=1112.61 | FE=193 | |
| 111.57 | 10614 VV 115.511 | KI=1115.81 | FE=194 | |
| 111.77 | 4740 VV 110.625 | KI=1117.71 | FE=195 | |
| 111.97 | 749 VV 110.495 | KI=1119.71 | FE=196 | |
| 112.34 | 1745 BV 101.406 | KI=1123.41 | FE=198 | |
| 112.70 | 6571 VV 105.838 | KI=1127.01 | FE=199 | |
| 112.94 | 9585 VV 100.296 | KI=1129.41 | FE=200 | |
| 113.26 | 714 VV 37.941 | KI=1132.71 | FE=201 | |
| 113.50 | 1286 BV 59.418 | KI=1135.01 | FE=203 | |
| 113.72 | 947 VV 62.286 | KI=1137.11 | FE=204 | |
| 113.97 | 6080 VV 102.633 | KI=1139.71 | FE=205 | |
| 114.09 | 4973 VV 100.428 | KI=1141.01 | FE=206 | |
| 114.40 | 9101 VV 105.568 | KI=1144.01 | FE=207 | |
| 114.83 | 4535 VV 105.984 | KI=1148.31 | FE=208 | |
| 114.97 | 1988 VV 105.776 | KI=1149.81 | FE=209 | |
| 115.25 | 7797 VV 107.581 | KI=1152.61 | FE=210 | |
| 115.49 | 4327 VV 109.389 | KI=1155.01 | FE=211 | |
| 115.61 | 9194 VV 105.192 | KI=1156.11 | FE=212 | |
| 115.80 | 1157 VV 100.912 | KI=1158.01 | FE=213 | |
| 115.98 | 8849 VV 107.928 | KI=1159.81 | FE=214 | |
| 116.17 | 2218 VV 104.301 | KI=1161.81 | FE=215 | |
| 116.41 | 16351 VV 107.507 | KI=1164.21 | FE=216 | |
| 117.04 | 15188 VV 103.198 | KI=1170.41 | FE=217 | |
| 117.12 | 8136 VV 107.935 | KI=1171.41 | FE=218 | |
| 117.59 | 1640 BV 67.421 | KI=1175.91 | FE=219 | |
| 117.96 | 3578 BV 97.537 | KI=1179.71 | FE=220 | |
| 118.14 | 4886 VV 102.712 | KI=1181.41 | FE=221 | |
| 118.53 | 11528 VV 104.541 | KI=1185.31 | FE=222 | |

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|--------|-----------------|------------|--------|
| 118.96 | 5688 VV 103.482 | KI=1189.6: | FE=223 |
| 119.15 | 4871 VV 106.722 | KI=1191.5: | FE=224 |
| 119.39 | 6639 VV 118.662 | KI=1193.9: | FE=225 |

REPORT: 8.43 (CONTINUED) PAGE: 5 AMT. REL. TO REF. FUEL

| RT | AREA | % REL. | NAME |
|--------|------------------|--------|-------------------------|
| 120.00 | 77616 VV 110.016 | | \$1200-n-C12-ANE:FE=227 |
| 120.34 | 2765 VV 110.399 | | KI=1203.4: |
| 120.55 | 1703 VV 87.773 | | FE=228 |
| 121.09 | 3755 BV 97.336 | | KI=1205.6: |
| 121.41 | 23398 VV 106.971 | | FE=229 |
| 121.82 | 1633 VV 80.752 | | KI=1210.9: |
| 122.17 | 1516 BV 79.982 | | FE=231 |
| 122.43 | 1794 VV 103.320 | | KI=1214.2: |
| 122.78 | 5772 VV 107.925 | | FE=232 |
| 123.39 | 12315 VV 115.864 | | KI=1227.8: |
| 123.86 | 7583 VV 114.956 | | FE=233 |
| 124.17 | 3594 VV 113.357 | | KI=1233.9: |
| 124.54 | 2767 VV 113.307 | | FE=234 |
| 124.84 | 5056 VV 114.635 | | KI=1248.5: |
| 125.28 | 6947 VV 110.943 | | FE=235 |
| 125.48 | 10509 VV 111.280 | | KI=1252.8: |
| 125.92 | 7990 VV 109.849 | | FE=236 |
| 126.40 | 10455 VV 110.039 | | KI=1254.8: |
| 126.76 | 3804 VV 112.974 | | FE=237 |
| 127.02 | 7024 VV 110.456 | | KI=1267.6: |
| 127.31 | 21112 VV 109.678 | | FE=238 |
| 128.26 | 11383 BV 107.092 | | KI=1270.2: |
| 128.56 | 1936 VV 103.743 | | FE=239 |
| 129.42 | 2384 BB 106.336 | | KI=1273.1: |
| 130.00 | 65670 BV 109.375 | | FE=240 |
| 130.95 | 3602 BV 106.591 | | KI=1309.6: |
| 131.15 | 2355 VB 79.854 | | FE=241 |
| 131.62 | 1236 BV .243 | | KI=1311.5: |
| 131.80 | 6622 VV 90.246 | | FE=242 |
| 132.31 | 2275 VV 107.076 | | KI=1318.0: |
| 132.80 | 3793 VV 152.365 | | FE=243 |
| 133.34 | 2902 VV 130.882 | | KI=1323.1: |
| 133.84 | 6072 VV 149.243 | | FE=244 |
| 134.21 | 1806 VV 143.346 | | KI=1328.0: |
| 134.43 | 645 VB 104.362 | | FE=245 |
| 134.74 | 1042 BV 124.553 | | KI=1344.5: |
| 135.10 | 4662 VV 115.232 | | FE=246 |
| 135.41 | 2328 VV 110.197 | | KI=1347.5: |
| 135.88 | 4304 VV 111.864 | | FE=247 |
| 136.40 | 8553 VV 127.855 | | KI=1351.1: |
| 137.03 | 4215 VV 115.296 | | FE=248 |
| 137.67 | 10674 BB 107.423 | | KI=1354.0: |
| 138.30 | 2000 BB 102.163 | | FE=249 |
| 138.85 | 1728 BV 111.372 | | KI=1383.0: |
| 139.33 | 7381 VV 113.928 | | FE=250 |
| 140.00 | 32257 VV 110.998 | | \$1388.6: |
| 140.40 | 1585 VV 112.845 | | FE=251 |
| 140.78 | 4874 VV 112.545 | | KI=1404.0: |
| 141.09 | 4546 VV 119.767 | | FE=252 |
| 141.35 | 1223 VV 185.927 | | KI=1407.9: |
| 141.59 | 1135 VB .224 | | FE=253 |
| 142.21 | 539 BV 110.013 | | KI=1411.1: |
| 142.71 | 1448 BV 83.193 | | FE=254 |

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|--------|---------|---------|------------|--------|
| 143.01 | 696 VB | 98.718 | KI=1430.31 | FE=287 |
| 143.42 | 606 BB | 107.452 | KI=1434.11 | FE=288 |
| 144.31 | 1541 BV | 105.735 | KI=1443.21 | FE=289 |

REPORT: 8.43 (CONTINUED) PAGE: 6 AMT. REL. TO REF. FUEL

| RT | AREA | % REL. | NAME | |
|--------|----------|---------|------------------------|--------|
| 144.60 | 701 VV | 103.022 | KI=1446.11 | FE=290 |
| 145.35 | 1077 VV | 106.678 | KI=1453.41 | FE=292 |
| 145.86 | 1767 VV | 119.589 | KI=1458.71 | FE=293 |
| 146.26 | 7452 VB | 110.114 | KI=1462.71 | FE=294 |
| 147.07 | 1595 BB | 104.684 | KI=1470.71 | FE=295 |
| 150.00 | 8926 BB | 108.261 | \$1500-n-C15-ANE | FE=296 |
| 160.00 | 1419 BB | 108.122 | \$1600-n-C16-ANE | FE=297 |
| 177.16 | 55861 BB | | &ANTH-410(IS)(KI=1772) | |
| 211.80 | 4711 BB | 95.869 | \$2118-(IMPURITY #3) | |

TOTAL AREA = 21959680 TOTAL % REL. = 30457.683

PROCESSED DATA FILE: BIP163 RAW DATA FILE: MFR163

STATISTICAL SUMMARY OF MH08 DATA BASE

CONSISTING OF 2 SAMPLES
CONCENTRATION (% REL.)

| COMPOUND NAME | | AVERAGE | RANGE | STANDARD DEVIATION | %REL STANDARD DEVIATION | NUMBER OF SAMPLES |
|------------------------|--------|----------|----------|-----------------------|-------------------------------|-------------------------|
| KI= 377.2; | FE=001 | 1.07E+02 | 3.07E+00 | 2.17E+00 | 2.03E+00 | 2 |
| KI= 388.0; | FE=002 | 1.14E+02 | 1.22E+00 | 8.63E-01 | 7.58E-01 | 2 |
| \$400-n-C4-ANE; | FE=003 | 1.13E+02 | 3.14E-01 | 2.22E-01 | 1.97E-01 | 2 |
| KI= 457.6; | FE=004 | 1.12E+02 | 1.28E-02 | 9.06E-03 | 8.07E-03 | 2 |
| \$500-n-C5-ANE; | FE=005 | 1.12E+02 | 2.88E-03 | 2.04E-03 | 1.82E-03 | 2 |
| KI= 507.0; | FE=006 | 1.29E+02 | 4.24E+01 | 3.00E+01 | 2.33E+01 | 2 |
| KI= 514.3; | FE=008 | 1.62E+02 | 8.18E+00 | 5.78E+00 | 3.56E+00 | 2 |
| KI= 520.1; | FE=009 | 1.14E+02 | 2.22E+00 | 1.57E+00 | 1.38E+00 | 2 |
| CH2CL2 SOLVENT | | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.70E+38 | 2 |
| KI= 549.7; | FE=010 | 1.10E+02 | 4.18E-01 | 2.96E-01 | 2.68E-01 | 2 |
| KI= 552.4; | FE=011 | 1.11E+02 | 2.48E-01 | 1.75E-01 | 1.58E-01 | 2 |
| IMPURITY #1(KI= 558.6) | FE=012 | 1.01E+02 | 6.76E+01 | 4.78E+01 | 4.74E+01 | 2 |
| KI= 560.4; | FE=012 | 1.12E+02 | 2.30E+02 | 1.63E+00 | 1.46E+00 | 2 |
| KI= 577.3; | FE=013 | 1.12E+02 | 3.75E-01 | 2.65E-01 | 2.37E-01 | 2 |
| \$600-n-C6-ANE; | FE=014 | 1.12E+02 | 2.30E-01 | 1.63E-01 | 1.45E-01 | 2 |
| KI= 611.2; | FE=016 | 1.13E+02 | | | | 1 |
| KI= 613.9; | FE=017 | 1.30E+02 | 2.32E+00 | 1.64E+00 | 1.27E+00 | 2 |
| KI= 624.8; | FE=018 | 1.12E+02 | 9.58E-02 | 6.77E-02 | 6.05E-02 | 2 |
| KI= 627.3; | FE=019 | 1.08E+02 | 1.19E+01 | 8.41E+00 | 7.81E+00 | 2 |
| KI= 632.4; | FE=020 | 1.12E+02 | 1.04E+00 | 7.38E-01 | 6.60E-01 | 2 |
| KI= 653.0; | FE=021 | 1.13E+02 | 1.48E-01 | 1.05E-01 | 9.29E-02 | 2 |
| KI= 656.1; | FE=022 | 1.12E+02 | 4.55E-01 | 3.22E-01 | 2.88E-01 | 2 |
| KI= 658.8; | FE=023 | 1.03E+02 | 4.82E-01 | 3.41E-01 | 3.31E-01 | 2 |
| KI= 669.0; | FE=024 | 1.13E+02 | 9.26E-01 | 6.55E-01 | 5.80E-01 | 2 |
| KI= 670.4; | FE=025 | 1.11E+02 | 4.30E-01 | 3.04E-01 | 2.73E-01 | 2 |
| IMPURITY #2(KI= 674.4) | FE=026 | 1.02E+02 | 1.48E+00 | 1.05E+00 | 1.03E+00 | 2 |
| KI= 677.4; | FE=026 | 1.12E+02 | 5.91E-01 | 4.18E-01 | 3.74E-01 | 2 |
| KI= 679.8; | FE=027 | 1.12E+02 | 7.14E-01 | 5.05E-01 | 4.52E-01 | 2 |
| KI= 682.0; | FE=028 | 1.12E+02 | 6.92E-01 | 4.89E-01 | 4.38E-01 | 2 |
| KI= 684.6; | FE=029 | 1.12E+02 | 6.43E-01 | 4.69E-01 | 4.20E-01 | 2 |
| KI= 685.8; | FE=030 | 1.12E+02 | 9.20E-01 | 6.51E-01 | 5.83E-01 | 2 |
| \$700-n-C7-ANE; | FE=031 | 1.12E+02 | 6.68E-01 | 4.72E-01 | 4.23E-01 | 2 |
| KI= 701.8; | FE=032 | 1.11E+02 | 3.45E+01 | 2.42E+01 | 2.19E+01 | 2 |
| KI= 705.0; | FE=033 | 1.17E+02 | 1.27E+01 | 9.01E+00 | 7.70E+00 | 2 |
| KI= 708.0; | FE=035 | 1.01E+02 | 3.70E+01 | 2.62E+01 | 2.52E+01 | 2 |
| KI= 712.5; | FE=037 | 1.12E+02 | 4.77E-01 | 3.37E-01 | 3.01E-01 | 2 |
| KI= 715.6; | FE=037 | 1.12E+02 | 8.29E-01 | 5.86E-01 | 5.25E-01 | 2 |
| KI= 719.1; | FE=038 | 1.11E+02 | 2.93E-01 | 2.08E-01 | 1.88E-01 | 2 |
| KI= 725.8; | FE=039 | 1.12E+02 | 2.76E-01 | 1.95E-01 | 1.75E-01 | 2 |
| KI= 730.0; | FE=040 | 1.12E+02 | 5.18E-01 | 3.67E-01 | 3.28E-01 | 2 |
| KI= 731.0; | FE=041 | 1.11E+02 | 5.17E-01 | 3.65E-01 | 3.28E-01 | 2 |
| KI= 733.6; | FE=042 | 1.12E+02 | 6.16E-01 | 4.36E-01 | 3.90E-01 | 2 |
| KI= 735.0; | FE=043 | 1.12E+02 | 3.74E-01 | 2.65E-01 | 2.37E-01 | 2 |
| KI= 741.2; | FE=044 | 1.12E+02 | 4.00E-01 | 2.83E-01 | 2.52E-01 | 2 |
| KI= 743.3; | FE=045 | 1.12E+02 | 1.02E+00 | 7.18E-01 | 6.39E-01 | 2 |
| KI= 745.4; | FE=046 | 1.18E+02 | 3.57E-01 | 2.38E-01 | 2.01E-01 | 2 |
| KI= 749.9; | FE=047 | 1.19E+02 | 1.74E+01 | 1.23E+01 | 1.03E+01 | 2 |
| KI= 753.9; | FE=048 | 1.11E+02 | 2.38E+00 | 1.68E+00 | 1.51E+00 | 2 |
| KI= 757.1; | FE=049 | 1.11E+02 | 9.64E-01 | 6.82E-01 | 6.13E-01 | 2 |
| KI= 758.8; | FE=050 | 1.11E+02 | 6.59E-01 | 4.66E-01 | 4.20E-01 | 2 |
| KI= 762.0; | FE=051 | 1.06E+02 | 5.15E-01 | 3.64E-01 | 3.44E-01 | 2 |
| KI= 765.3; | FE=052 | 1.11E+02 | 8.09E-01 | 5.72E-01 | 5.14E-01 | 2 |
| KI= 766.4; | FE=053 | 1.11E+02 | 4.79E-01 | 3.38E-01 | 3.05E-01 | 2 |

| | | | | | | |
|-----------------|--------|----------|----------|----------|----------|---|
| KI= 768.81 | FE=054 | 1.11E+02 | 6.53E-01 | 4.62E-01 | 4.14E-01 | 2 |
| KI= 770.61 | FE=055 | 1.11E+02 | 7.06E-01 | 5.00E-01 | 4.48E-01 | 2 |
| KI= 772.41 | FE=056 | 1.11E+02 | 7.16E-01 | 5.03E-01 | 4.55E-01 | 2 |
| KI= 775.21 | FE=057 | 1.11E+02 | 6.58E-01 | 4.65E-01 | 4.20E-01 | 2 |
| KI= 781.01 | FE=058 | 1.12E+02 | 2.28E-01 | 1.61E-01 | 1.44E-01 | 2 |
| KI= 783.21 | FE=059 | 1.13E+02 | 1.17E-01 | 8.26E-02 | 7.33E-02 | 2 |
| KI= 784.41 | FE=060 | 1.17E+02 | 1.24E+01 | 8.79E+00 | 7.50E+00 | 2 |
| KI= 785.41 | FE=061 | 1.08E+02 | | | | 1 |
| KI= 786.91 | FE=062 | 1.13E+02 | 8.44E-02 | 5.97E-02 | 5.28E-02 | 2 |
| KI= 791.11 | FE=063 | 1.01E+02 | | | | 1 |
| KI= 794.41 | FE=064 | 1.07E+02 | 1.14E+00 | 8.09E-01 | 7.55E-01 | 2 |
| KI= 795.71 | FE=065 | 1.09E+02 | 9.84E-01 | 6.96E-01 | 6.41E-01 | 2 |
| \$800-n-C8-ANE: | | | | | | |
| KI= 802.51 | FE=066 | 1.11E+02 | 7.66E-01 | 5.42E-01 | 4.89E-01 | 2 |
| KI= 805.71 | FE=067 | 1.08E+02 | 3.05E+00 | 2.16E+00 | 2.01E+00 | 2 |
| KI= 807.11 | FE=068 | 1.09E+02 | 1.17E+00 | 8.31E-01 | 7.60E-01 | 2 |
| KI= 807.11 | FE=069 | 1.12E+02 | 2.59E-02 | 1.83E-02 | 1.64E-02 | 2 |
| KI= 808.91 | FE=070 | 1.05E+02 | 2.36E+00 | 1.67E+00 | 1.60E+00 | 2 |
| KI= 812.31 | FE=071 | 1.10E+02 | 2.31E-01 | 1.64E-01 | 1.49E-01 | 2 |
| KI= 813.61 | FE=072 | 1.08E+02 | 1.40E+00 | 9.90E-01 | 9.16E-01 | 2 |
| KI= 817.01 | FE=073 | 1.10E+02 | 1.38E+00 | 9.77E-01 | 8.89E-01 | 2 |
| KI= 818.21 | FE=074 | 1.05E+02 | 1.12E+01 | 7.95E+00 | 7.54E+00 | 2 |
| KI= 821.31 | FE=075 | 1.08E+02 | 8.19E+00 | 5.79E+00 | 5.35E+00 | 2 |
| KI= 824.21 | FE=076 | 1.03E+02 | 2.66E+01 | 1.88E+01 | 1.82E+01 | 2 |
| KI= 825.71 | FE=077 | 7.11E+01 | 1.05E+02 | 7.41E+01 | 1.04E+02 | 2 |
| KI= 828.11 | FE=078 | 1.09E+02 | 3.84E+00 | 2.72E+00 | 2.48E+00 | 2 |
| KI= 834.41 | FE=079 | 1.11E+02 | 7.91E-01 | 5.60E-01 | 5.06E-01 | 2 |
| KI= 837.01 | FE=080 | 1.08E+02 | 4.84E-01 | 3.42E-01 | 3.17E-01 | 2 |
| KI= 840.81 | FE=081 | 1.07E+02 | 1.68E+00 | 1.19E+00 | 1.10E+00 | 2 |
| KI= 842.71 | FE=082 | 1.11E+02 | 6.22E-01 | 4.40E-01 | 3.98E-01 | 2 |
| KI= 844.21 | FE=083 | 1.10E+02 | 5.91E-01 | 4.18E-01 | 3.81E-01 | 2 |
| KI= 846.21 | FE=084 | 1.07E+02 | 4.64E-01 | 3.28E-01 | 3.06E-01 | 2 |
| KI= 848.21 | FE=085 | 1.05E+02 | 6.19E-02 | 4.38E-02 | 4.16E-02 | 2 |
| KI= 850.91 | FE=086 | 9.68E+01 | | | | 1 |
| KI= 852.81 | FE=087 | 1.09E+02 | 5.37E-01 | 3.80E-01 | 3.49E-01 | 2 |
| KI= 854.41 | FE=088 | 1.11E+02 | 7.97E-01 | 5.64E-01 | 5.10E-01 | 2 |
| KI= 856.11 | FE=089 | 1.10E+02 | 6.44E-01 | 4.56E-01 | 4.13E-01 | 2 |
| KI= 860.01 | FE=090 | 1.09E+02 | 3.22E+00 | 2.28E+00 | 2.09E+00 | 2 |
| KI= 862.21 | FE=091 | 1.11E+02 | 2.78E+00 | 1.96E+00 | 1.77E+00 | 2 |
| KI= 863.81 | FE=092 | 1.09E+02 | 2.01E-01 | 1.42E-01 | 1.30E-01 | 2 |
| KI= 865.01 | FE=093 | 1.10E+02 | 3.72E+00 | 2.63E+00 | 2.40E+00 | 2 |
| KI= 867.41 | FE=094 | 7.74E+01 | 6.56E+01 | 4.64E+01 | 3.99E+01 | 2 |
| KI= 869.51 | FE=095 | 1.05E+02 | 1.62E+01 | 1.15E+01 | 1.10E+01 | 2 |
| KI= 871.21 | FE=096 | 1.09E+02 | 3.38E+00 | 2.39E+00 | 2.18E+00 | 2 |
| KI= 873.11 | FE=097 | 1.00E+02 | 2.92E+01 | 2.07E+01 | 2.07E+01 | 2 |
| KI= 877.11 | FE=098 | 1.09E+02 | 2.81E+00 | 1.98E+00 | 1.82E+00 | 2 |
| KI= 880.01 | FE=099 | 1.10E+02 | 6.43E-01 | 4.55E-01 | 4.12E-01 | 2 |
| KI= 881.61 | FE=100 | 1.10E+02 | 2.08E+00 | 1.47E+00 | 1.33E+00 | 2 |
| KI= 884.51 | FE=102 | 1.12E+02 | 7.55E-01 | 6.75E-01 | 6.04E-01 | 2 |
| KI= 887.41 | FE=103 | 1.04E+02 | 1.48E+00 | 1.05E+00 | 1.01E+00 | 2 |
| KI= 890.91 | FE=104 | 1.05E+02 | 2.67E+00 | 1.89E+00 | 1.81E+00 | 2 |
| KI= 892.61 | FE=105 | 1.04E+02 | 5.28E+00 | 3.73E+00 | 3.59E+00 | 2 |
| KI= 894.61 | FE=106 | 1.08E+02 | 4.47E+00 | 3.16E+00 | 2.92E+00 | 2 |
| KI= 895.91 | FE=107 | 1.07E+02 | 3.90E+00 | 2.76E+00 | 2.57E+00 | 2 |
| KI= 897.61 | FE=108 | 1.08E+02 | 4.30E+00 | 3.04E+00 | 2.81E+00 | 2 |
| \$900-n-C9-ANE: | | | | | | |
| KI= 901.31 | FE=109 | 1.11E+02 | 2.23E+00 | 1.58E+00 | 1.43E+00 | 2 |
| KI= 908.41 | FE=110 | 9.29E+01 | | | | 1 |
| KI= 910.81 | FE=112 | 1.08E+02 | 3.52E-01 | 2.49E-01 | 2.31E-01 | 2 |
| KI= 913.91 | FE=113 | 1.05E+02 | 2.14E+00 | 1.51E+00 | 1.44E+00 | 2 |
| KI= 915.41 | FE=114 | 9.94E+01 | 1.35E+00 | 9.53E-01 | 9.59E-01 | 2 |
| KI= 917.71 | FE=115 | 1.05E+02 | 1.05E+00 | 7.44E-01 | 7.08E-01 | 2 |
| KI= 917.71 | FE=116 | 1.09E+02 | 1.21E+00 | 8.59E-01 | 7.91E-01 | 2 |

| | | | | | | |
|-------------------|--------|----------|----------|----------|----------|---|
| KI= 920.1; | FE=117 | 1.05E+02 | 8.01E-01 | 5.66E-01 | 5.40E-01 | 2 |
| KI= 922.6; | FE=118 | 1.09E+02 | 8.55E-01 | 6.05E-01 | 5.53E-01 | 2 |
| KI= 924.7; | FE=119 | 1.09E+02 | 1.31E+00 | 9.25E-01 | 8.46E-01 | 2 |
| KI= 929.1; | FE=120 | 1.12E+02 | 1.40E+00 | 9.87E-01 | 8.78E-01 | 2 |
| KI= 933.5; | FE=122 | 1.18E+02 | 1.28E+00 | 9.03E-01 | 7.68E-01 | 2 |
| KI= 939.4; | FE=123 | 1.32E+02 | 1.55E+00 | 1.10E+00 | 8.30E-01 | 2 |
| KI= 945.3; | FE=125 | 1.16E+02 | 1.28E+00 | 9.05E-01 | 7.83E-01 | 2 |
| KI= 947.4; | FE=126 | 1.12E+02 | 1.38E+00 | 9.74E-01 | 8.66E-01 | 2 |
| KI= 952.0; | FE=127 | 1.09E+02 | 3.92E+00 | 2.77E+00 | 2.53E+00 | 2 |
| KI= 953.5; | FE=128 | 1.10E+02 | 5.58E+00 | 3.95E+00 | 3.60E+00 | 2 |
| KI= 955.8; | FE=129 | 1.08E+02 | 2.28E+00 | 1.61E+00 | 1.50E+00 | 2 |
| KI= 956.8; | FE=130 | 1.09E+02 | 1.78E+01 | 1.26E+01 | 1.16E+01 | 2 |
| KI= 960.5; | FE=131 | 1.09E+02 | 2.48E+01 | 1.75E+01 | 1.61E+01 | 2 |
| KI= 962.1; | FE=132 | 1.09E+02 | 1.31E+01 | 9.29E+00 | 8.55E+00 | 2 |
| KI= 964.7; | FE=133 | 1.08E+02 | 3.45E+01 | 2.44E+01 | 2.27E+01 | 2 |
| KI= 966.1; | FE=134 | 1.07E+02 | | | | 1 |
| KI= 967.4; | FE=135 | 7.53E+01 | 6.72E+01 | 4.75E+01 | 6.31E+01 | 2 |
| KI= 970.8; | FE=136 | 1.10E+02 | 6.13E+00 | 4.34E+00 | 3.94E+00 | 2 |
| KI= 972.7; | FE=137 | 1.10E+02 | 7.60E+00 | 5.37E+00 | 4.91E+00 | 2 |
| KI= 974.9; | FE=138 | 1.09E+02 | 4.65E+01 | 3.29E+01 | 3.02E+01 | 2 |
| KI= 976.9; | FE=139 | 1.10E+02 | 8.15E+00 | 5.76E+00 | 5.25E+00 | 2 |
| KI= 979.2; | FE=140 | 1.19E+02 | 9.55E+00 | 6.76E+00 | 5.68E+00 | 2 |
| KI= 981.7; | FE=142 | 1.09E+02 | 9.87E+00 | 6.98E+00 | 6.41E+00 | 2 |
| KI= 983.3; | FE=143 | 1.12E+02 | 2.51E+01 | 1.77E+01 | 1.59E+01 | 2 |
| KI= 986.2; | FE=144 | 1.11E+02 | 2.21E+00 | 1.56E+00 | 1.41E+00 | 2 |
| KI= 989.0; | FE=145 | 1.10E+02 | 9.08E+00 | 6.42E+00 | 5.82E+00 | 2 |
| KI= 993.5; | FE=146 | 1.25E+02 | 1.01E+01 | 7.16E+00 | 5.75E+00 | 2 |
| KI= 995.3; | FE=147 | 1.36E+02 | 1.40E+01 | 9.87E+00 | 7.25E+00 | 2 |
| KI= 996.3; | FE=148 | 1.13E+02 | 6.31E+00 | 4.46E+00 | 3.93E+00 | 2 |
| \$1000-n-C10-ANE; | FE=149 | 1.11E+02 | 1.38E+00 | 9.74E-01 | 8.77E-01 | 2 |
| KI=1003.9; | FE=150 | 1.12E+02 | 2.40E+00 | 1.70E+00 | 1.52E+00 | 2 |
| KI=1009.0; | FE=151 | 2.31E+02 | 5.59E+01 | 3.95E+01 | 1.71E+01 | 2 |
| KI=1013.9; | FE=152 | 1.10E+02 | 1.28E+01 | 9.04E+00 | 8.19E+00 | 2 |
| KI=1017.0; | FE=153 | 9.72E+01 | 4.65E+01 | 3.29E+01 | 3.38E+01 | 2 |
| KI=1019.3; | FE=154 | 1.08E+02 | | | | |
| KI=1020.1; | FE=155 | 5.04E+01 | 6.30E+01 | 4.45E+01 | 8.84E+01 | 1 |
| KI=1022.9; | FE=156 | 1.08E+02 | 1.11E+01 | 7.83E+00 | 7.26E+00 | 2 |
| KI=1025.8; | FE=157 | 1.13E+02 | 3.01E+00 | 2.13E+00 | 1.89E+00 | 2 |
| KI=1028.4; | FE=158 | 1.21E+02 | 4.00E+00 | 2.83E+00 | 2.33E+00 | 2 |
| KI=1031.6; | FE=159 | 1.31E+02 | 7.08E+00 | 5.01E+00 | 3.81E+00 | 2 |
| KI=1033.4; | FE=160 | 1.29E+02 | 3.14E+00 | 2.24E+00 | 1.74E+00 | 2 |
| KI=1034.6; | FE=161 | 1.32E+02 | 6.43E+00 | 4.55E+00 | 3.45E+00 | 2 |
| KI=1036.6; | FE=162 | 1.40E+02 | 8.84E+00 | 6.25E+00 | 4.45E+00 | 2 |
| KI=1038.5; | FE=163 | 1.29E+02 | 3.98E+00 | 2.81E+00 | 2.18E+00 | 2 |
| KI=1040.6; | FE=164 | 1.61E+02 | 1.70E+01 | 1.20E+01 | 7.44E+00 | 2 |
| KI=1043.2; | FE=165 | 1.27E+02 | 1.31E+00 | 9.28E-01 | 7.33E-01 | 2 |
| KI=1044.7; | FE=166 | 1.34E+02 | 3.96E+00 | 2.80E+00 | 2.09E+00 | 2 |
| KI=1046.4; | FE=167 | 1.24E+02 | 4.99E-01 | 3.53E-01 | 2.83E-01 | 2 |
| KI=1049.4; | FE=168 | 1.36E+02 | 5.30E+00 | 3.74E+00 | 2.71E+00 | 2 |
| KI=1050.6; | FE=169 | 1.34E+02 | 5.45E+00 | 3.85E+00 | 2.88E+00 | 2 |
| KI=1053.8; | FE=170 | 1.24E+02 | 2.72E-01 | 1.93E-01 | 1.56E-01 | 2 |
| KI=1055.3; | FE=171 | 1.20E+02 | 5.06E+01 | 3.57E+01 | 2.98E+01 | 2 |
| KI=1057.9; | FE=173 | 1.30E+02 | 1.27E-01 | 8.97E-02 | 6.90E-02 | 2 |
| KI=1060.8; | FE=174 | 1.14E+02 | 1.17E+00 | 8.31E-01 | 7.29E-01 | 2 |
| KI=1064.6; | FE=175 | 1.11E+02 | 5.51E-01 | 3.89E-01 | 3.52E-01 | 2 |
| KI=1066.2; | FE=176 | 1.10E+02 | 1.36E+00 | 9.60E-01 | 8.70E-01 | 2 |
| KI=1070.6; | FE=177 | 1.11E+02 | 1.19E+00 | 8.44E-01 | 7.63E-01 | 2 |
| KI=1072.8; | FE=178 | 1.10E+02 | 1.35E-01 | 9.57E-02 | 8.67E-02 | 2 |
| KI=1079.0; | FE=179 | 1.11E+02 | 8.05E-01 | 5.69E-01 | 5.14E-01 | 2 |
| KI=1081.6; | FE=180 | 1.10E+02 | 8.55E-02 | 6.05E-02 | 5.48E-02 | 2 |
| KI=1084.3; | FE=181 | 1.11E+02 | 1.24E+00 | 8.76E-01 | 7.88E-01 | 2 |

| | | | | | | |
|--------------------------|--------|----------|----------|----------|----------|---|
| KI=1087.2; | FE=182 | 1.11E+02 | 2.52E+00 | 1.78E+00 | 1.61E+00 | 2 |
| KI=1089.4; | FE=183 | 1.12E+02 | 2.76E+00 | 1.95E+00 | 1.74E+00 | 2 |
| KI=1090.8; | FE=184 | 1.10E+02 | 2.53E+00 | 1.79E+00 | 1.62E+00 | 2 |
| KI=1093.8; | FE=185 | 1.13E+02 | 6.15E-01 | 4.35E-01 | 3.85E-01 | 2 |
| KI=1096.0; | FE=186 | 1.11E+02 | 1.51E-02 | 1.07E-02 | 9.66E-03 | 2 |
| \$1100-n-C11-ANE; FE=187 | | 1.12E+02 | 8.67E-01 | 6.13E-01 | 5.50E-01 | 2 |
| KI=1104.4; | FE=189 | 1.12E+02 | 7.07E-01 | 5.00E-01 | 4.45E-01 | 2 |
| KI=1106.6; | FE=190 | 1.04E+02 | 1.34E+00 | 9.45E-01 | 9.06E-01 | 2 |
| KI=1108.4; | FE=191 | 1.23E+02 | 1.41E+00 | 9.95E-01 | 8.09E-01 | 2 |
| KI=1110.3; | FE=192 | 1.31E+02 | 3.18E+00 | 2.25E+00 | 1.71E+00 | 2 |
| KI=1112.6; | FE=193 | 1.19E+02 | 1.90E+00 | 1.35E+00 | 1.14E+00 | 2 |
| KI=1115.8; | FE=194 | 1.15E+02 | 1.11E+00 | 7.86E-01 | 6.84E-01 | 2 |
| KI=1117.7; | FE=195 | 1.12E+02 | 3.35E+00 | 2.37E+00 | 2.11E+00 | 2 |
| KI=1119.7; | FE=196 | 1.10E+02 | 1.05E+00 | 7.43E-01 | 6.75E-01 | 2 |
| KI=1123.4; | FE=198 | 1.00E+02 | 2.43E+00 | 1.72E+00 | 1.72E+00 | 2 |
| KI=1127.0; | FE=199 | 1.05E+02 | 1.31E+00 | 9.28E-01 | 8.83E-01 | 2 |
| KI=1129.4; | FE=200 | 9.98E+01 | 9.62E-01 | 6.80E-01 | 6.82E-01 | 2 |
| KI=1132.7; | FE=201 | 3.38E+01 | 8.19E+00 | 5.79E+00 | 1.71E+01 | 2 |
| KI=1135.0; | FE=203 | 5.93E+01 | 2.49E-01 | 1.76E-01 | 2.96E-01 | 2 |
| KI=1137.1; | FE=204 | 6.15E+01 | 1.48E+00 | 1.05E+00 | 1.70E+00 | 2 |
| KI=1139.7; | FE=205 | 1.01E+02 | 3.63E+00 | 2.56E+00 | 2.54E+00 | 2 |
| KI=1141.0; | FE=206 | 1.01E+02 | 1.55E+00 | 1.10E+00 | 1.08E+00 | 2 |
| KI=1144.0; | FE=207 | 1.05E+02 | 1.13E+00 | 8.03E-01 | 7.64E-01 | 2 |
| KI=1148.3; | FE=208 | 1.06E+02 | 7.20E-01 | 5.09E-01 | 4.79E-01 | 2 |
| KI=1149.8; | FE=209 | 1.06E+02 | 1.95E-01 | 1.38E-01 | 1.31E-01 | 2 |
| KI=1152.6; | FE=210 | 1.08E+02 | 1.27E+00 | 8.97E-01 | 8.29E-01 | 2 |
| KI=1155.0; | FE=211 | 1.11E+02 | 2.57E+00 | 1.82E+00 | 1.64E+00 | 2 |
| KI=1156.1; | FE=212 | 1.06E+02 | 8.02E-01 | 5.67E-01 | 5.37E-01 | 2 |
| KI=1158.0; | FE=213 | 1.07E+02 | 1.16E+01 | 8.21E+00 | 7.69E+00 | 2 |
| KI=1159.8; | FE=214 | 1.09E+02 | 2.11E+00 | 1.49E+00 | 1.37E+00 | 2 |
| KI=1161.8; | FE=215 | 1.09E+02 | 1.01E+01 | 7.14E+00 | 6.53E+00 | 2 |
| KI=1164.2; | FE=216 | 1.09E+02 | 3.58E+00 | 2.53E+00 | 2.32E+00 | 2 |
| KI=1170.4; | FE=217 | 1.35E+02 | 6.32E+01 | 4.47E+01 | 3.32E+01 | 2 |
| KI=1171.4; | FE=218 | 1.08E+02 | | | | 1 |
| KI=1175.9; | FE=219 | 1.07E+02 | 7.93E+01 | 5.61E+01 | 5.24E+01 | 2 |
| KI=1179.7; | FE=220 | 1.12E+02 | 2.82E+01 | 2.00E+01 | 1.79E+01 | 2 |
| KI=1181.4; | FE=221 | 1.10E+02 | 1.42E+01 | 1.01E+01 | 9.16E+00 | 2 |
| KI=1185.3; | FE=222 | 1.11E+02 | 1.25E+01 | 8.84E+00 | 7.98E+00 | 2 |
| KI=1189.6; | FE=223 | 1.10E+02 | 1.23E+01 | 8.71E+00 | 7.95E+00 | 2 |
| KI=1191.5; | FE=224 | 1.10E+02 | 6.89E+00 | 4.87E+00 | 4.42E+00 | 2 |
| KI=1193.9; | FE=225 | 1.22E+02 | 6.54E+00 | 4.62E+00 | 3.79E+00 | 2 |
| \$1200-n-C12-ANE; FE=227 | | 1.10E+02 | 1.14E-01 | 8.06E-02 | 7.32E-02 | 2 |
| KI=1203.4; | FE=228 | 1.27E+02 | 3.33E+01 | 2.35E+01 | 1.85E+01 | 2 |
| KI=1205.6; | FE=229 | 1.35E+02 | 9.48E+01 | 6.70E+01 | 4.96E+01 | 2 |
| KI=1210.9; | FE=231 | 1.25E+02 | 5.52E+01 | 3.90E+01 | 3.12E+01 | 2 |
| KI=1214.2; | FE=232 | 1.12E+02 | 1.08E+01 | 7.64E+00 | 6.80E+00 | 2 |
| KI=1218.2; | FE=233 | 1.70E+02 | 1.79E+02 | 1.26E+02 | 7.43E+01 | 2 |
| KI=1221.7; | FE=235 | 1.27E+02 | 9.40E+01 | 6.65E+01 | 5.24E+01 | 2 |
| KI=1224.3; | FE=236 | 1.16E+02 | 2.51E+01 | 1.77E+01 | 1.53E+01 | 2 |
| KI=1227.8; | FE=237 | 1.10E+02 | 4.50E+00 | 3.18E+00 | 2.89E+00 | 2 |
| KI=1233.9; | FE=238 | 1.15E+02 | 7.72E-01 | 5.46E-01 | 4.73E-01 | 2 |
| KI=1238.6; | FE=239 | 1.15E+02 | 5.91E-02 | 4.18E-02 | 3.63E-02 | 2 |
| KI=1241.7; | FE=240 | 1.13E+02 | 1.21E+00 | 8.59E-01 | 7.62E-01 | 2 |
| KI=1245.4; | FE=241 | 1.13E+02 | 1.01E-01 | 7.16E-02 | 6.32E-02 | 2 |
| KI=1248.5; | FE=242 | 1.15E+02 | 1.70E-02 | 1.20E-02 | 1.05E-02 | 2 |
| KI=1252.8; | FE=243 | 1.11E+02 | 3.06E-01 | 2.17E-01 | 1.95E-01 | 2 |
| KI=1254.8; | FE=244 | 1.11E+02 | 1.29E+00 | 9.10E-01 | 8.23E-01 | 2 |
| KI=1259.3; | FE=245 | 1.10E+02 | 4.17E-01 | 2.95E-01 | 2.68E-01 | 2 |
| KI=1264.0; | FE=246 | 1.10E+02 | 5.23E-01 | 3.70E-01 | 3.37E-01 | 2 |
| KI=1267.6; | FE=247 | 1.14E+02 | 1.20E+00 | 8.52E-01 | 7.50E-01 | 2 |
| KI=1270.2; | FE=248 | 1.10E+02 | 5.72E-01 | 4.04E-01 | 3.67E-01 | 2 |

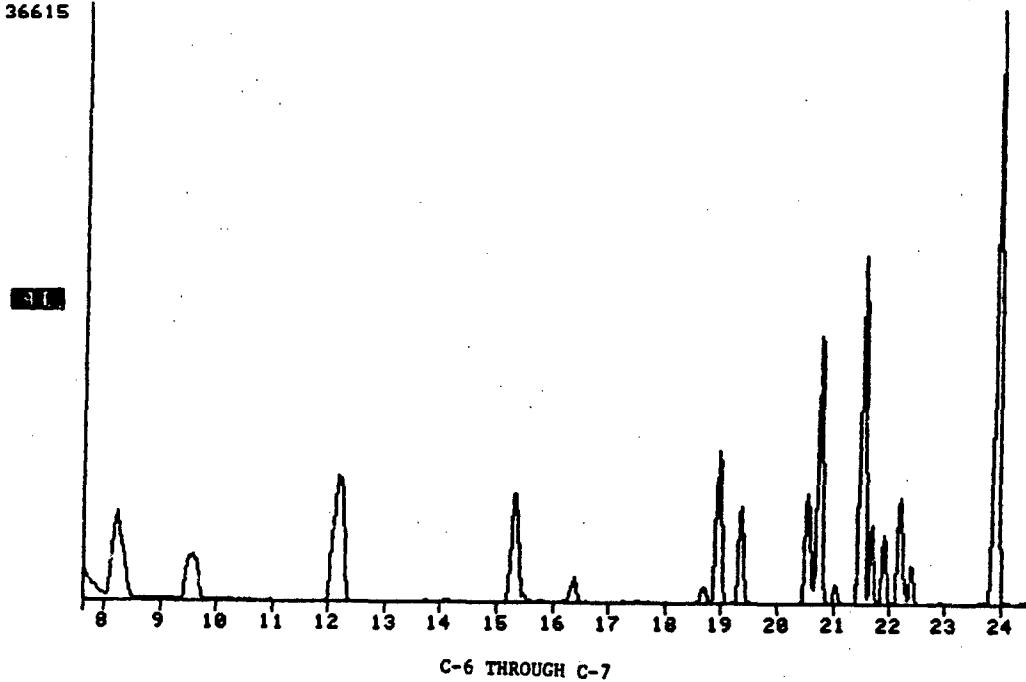
| | | | | | | |
|-------------------------|--------|----------|----------|----------|----------|---|
| KI=1273.1; | FE=249 | 1.10E+02 | 1.78E-01 | 1.26E-01 | 1.15E-01 | 2 |
| KI=1282.7; | FE=253 | 1.07E+02 | 3.84E-01 | 2.71E-01 | 2.54E-01 | 2 |
| KI=1285.6; | FE=254 | 1.04E+02 | 3.05E-02 | 2.16E-02 | 2.08E-02 | 2 |
| KI=1288.3; | FE=255 | 6.27E+01 | | | | 1 |
| KI=1294.2; | FE=256 | 1.04E+02 | 4.81E+00 | 3.40E+00 | 3.28E+00 | 2 |
| \$1300-n-C13-ANE;FE=257 | | 1.09E+02 | 1.06E-01 | 7.46E-02 | 6.83E-02 | 2 |
| KI=1309.6; | FE=259 | 1.05E+02 | 3.63E+00 | 2.56E+00 | 2.45E+00 | 2 |
| KI=1311.5; | FE=260 | 8.06E+01 | 1.47E+00 | 1.04E+00 | 1.29E+00 | 2 |
| KI=1318.0; | FE=262 | 7.10E+01 | 3.85E+01 | 2.72E+01 | 3.84E+01 | 2 |
| KI=1323.1; | FE=263 | 9.02E+01 | 3.38E+01 | 2.39E+01 | 2.65E+01 | 2 |
| KI=1328.0; | FE=264 | 1.50E+02 | 4.15E+00 | 2.94E+00 | 1.95E+00 | 2 |
| KI=1333.4; | FE=265 | 1.14E+02 | 3.45E+01 | 2.44E+01 | 2.15E+01 | 2 |
| KI=1338.4; | FE=266 | 1.11E+02 | 7.65E+01 | 5.41E+01 | 4.87E+01 | 2 |
| KI=1342.2; | FE=267 | 1.16E+02 | 5.46E+01 | 3.86E+01 | 3.32E+01 | 2 |
| KI=1344.5; | FE=268 | 1.04E+02 | | | | 1 |
| KI=1347.5; | FE=269 | 1.27E+02 | 3.92E+00 | 2.77E+00 | 2.19E+00 | 2 |
| KI=1351.1; | FE=270 | 1.16E+02 | 5.94E-01 | 4.20E-01 | 3.63E-01 | 2 |
| KI=1354.0; | FE=271 | 1.11E+02 | 1.01E+00 | 7.11E-01 | 6.42E-01 | 2 |
| KI=1358.9; | FE=272 | 1.08E+02 | 6.82E+00 | 4.82E+00 | 4.45E+00 | 2 |
| KI=1364.0; | FE=273 | 1.19E+02 | 1.74E+01 | 1.23E+01 | 1.03E+01 | 2 |
| KI=1370.3; | FE=274 | 1.10E+02 | 1.07E+01 | 7.55E+00 | 6.87E+00 | 2 |
| KI=1376.7; | FE=275 | 1.07E+02 | 2.79E-02 | 1.97E-02 | 1.84E-02 | 2 |
| KI=1383.0; | FE=276 | 1.02E+02 | 8.97E-01 | 6.34E-01 | 6.23E-01 | 2 |
| KI=1388.6; | FE=277 | 1.11E+02 | 2.42E-01 | 1.71E-01 | 1.54E-01 | 2 |
| KI=1393.4; | FE=278 | 1.10E+02 | 7.08E+00 | 5.01E+00 | 4.54E+00 | 2 |
| \$1400-n-C14-ANE;FE=279 | | 1.09E+02 | 4.17E+00 | 2.95E+00 | 2.71E+00 | 2 |
| KI=1404.0; | FE=280 | 1.09E+02 | 7.74E+00 | 5.47E+00 | 5.02E+00 | 2 |
| KI=1407.9; | FE=281 | 1.12E+02 | 1.60E-01 | 1.13E-01 | 1.00E-01 | 2 |
| KI=1411.1; | FE=282 | 1.21E+02 | 2.87E+00 | 2.03E+00 | 1.67E+00 | 2 |
| KI=1413.6; | FE=283 | 1.88E+02 | 3.17E+00 | 2.24E+00 | 1.20E+00 | 2 |
| KI=1422.0; | FE=285 | 1.10E+02 | | | | 1 |
| KI=1427.2; | FE=286 | 1.12E+02 | 5.72E+01 | 4.05E+01 | 3.62E+01 | 2 |
| KI=1430.3; | FE=287 | 1.03E+02 | 8.21E+00 | 5.81E+00 | 5.65E+00 | 2 |
| KI=1434.1; | FE=288 | 1.07E+02 | 1.82E+00 | 1.29E+00 | 1.21E+00 | 2 |
| KI=1443.2; | FE=289 | 1.03E+02 | 6.23E+00 | 4.40E+00 | 4.29E+00 | 2 |
| KI=1446.1; | FE=290 | 1.03E+02 | | | | 1 |
| KI=1450.5; | FE=291 | 6.98E+01 | | | | 1 |
| KI=1453.4; | FE=292 | 1.17E+02 | 2.06E+01 | 1.46E+01 | 1.25E+01 | 2 |
| KI=1458.7; | FE=293 | 1.18E+02 | 2.41E+00 | 1.70E+00 | 1.44E+00 | 2 |
| KI=1462.7; | FE=294 | 1.10E+02 | 7.50E-01 | 5.30E-01 | 4.80E-01 | 2 |
| KI=1470.7; | FE=295 | 1.06E+02 | 2.61E+00 | 1.85E+00 | 1.74E+00 | 2 |
| \$1500-n-C15-ANE;FE=296 | | 1.08E+02 | 1.11E-01 | 7.87E-02 | 7.29E-02 | 2 |
| \$1600-n-C16-ANE;FE=297 | | 1.08E+02 | 1.56E-01 | 1.10E-01 | 1.02E-01 | 2 |
| &ANTH-d10(IS)(KI=1772) | | 1.00E+01 | 1.91E-06 | 1.91E-06 | 1.91E-05 | 2 |
| \$2118-(IMPUITY #3) | | 9.75E+01 | 3.32E+00 | 2.35E+00 | 2.41E+00 | 2 |
| TOTAL CONCENTRATION | | 3.04E+04 | 1.37E+02 | 9.70E+01 | 3.19E-01 | 2 |

GC/MS CHROMATOGRAM OF FUEL #1607

HOME 1 UL 200/200 D19(1 MC/ML) ± 607(DIL 1:10)
MIEC SEE LOGBOOK DIL=5 017742

17742

36615

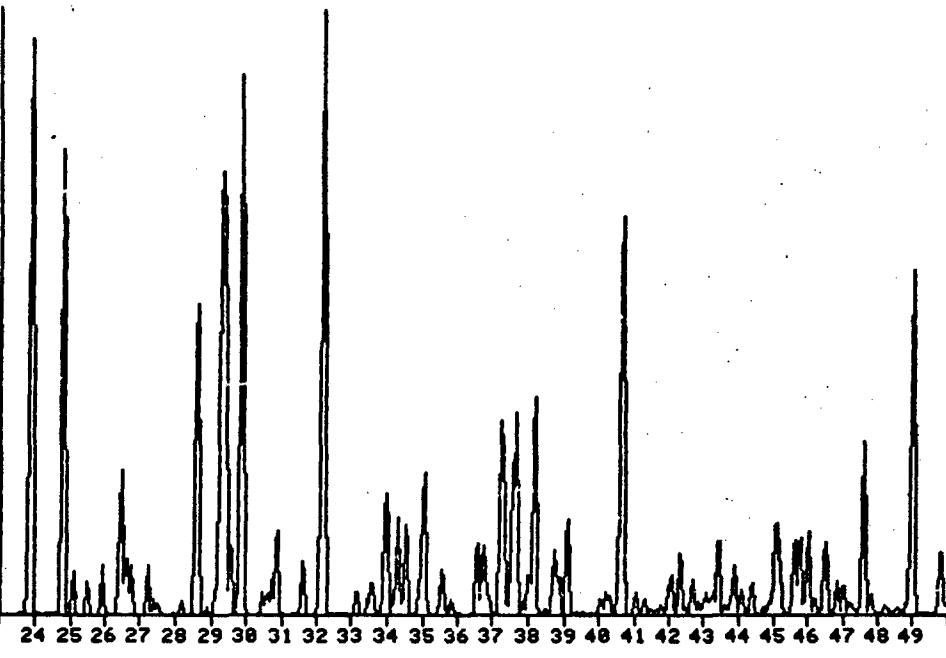


NAME 1 UL 200/200 D10(1 MG/ML) + 607(DIL 1:10)
MISC SEE LOCBOOK BTL#5 Q17742 B17742

REF ID: 17742

38444

T1



NAME 1 UL 200/200 D10(1 MG/ML) + 607(CIL 1:10)
1156 SEE LOGBOOK BTL#5 D17742 D17742

LEN 17742

24460

TIC

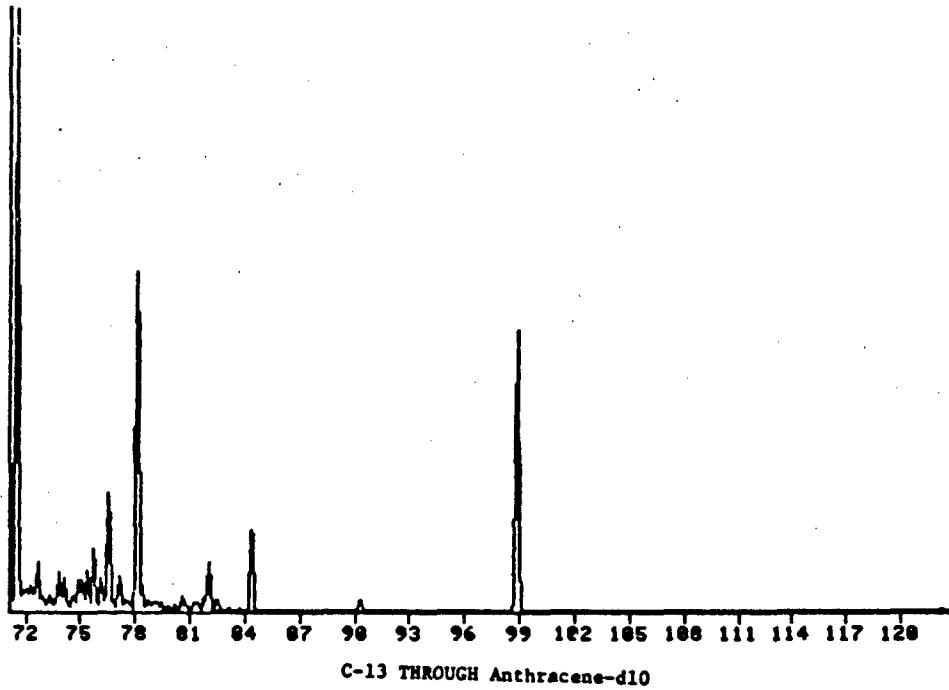
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C-10 THROUGH C-13

NAME: 1 UL 200/200 D19(1 MG/ML) + 607(DIL 1:10)
D17742 SEE LOGBOOK BTL#5 D17742

REF ID: 17742

19863



C-13 THROUGH Anthracene-d10

79

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RELATIVE AMOUNTS OF FEATURES FROM GC/MS DATA IN FUEL #1607

*** QUANTIFICATION REPORT ***

DIST. FUELS MASTER METHOD
PREPARED 9/2/83 KMSIMON

DATA FILE: 17742
STANDARDS FILE: 7000
CALIBRATIONS FILE: 8001

| I.D. NO. | COMPOUND NAME | CONC'N % REL. |
|----------|---------------------------------|---------------|
| 1 | KI= 566.2; F=012(43, 71) | 104.446 //2 |
| | KI= 577.5; F=013(57, 41) | 94.894 //2 |
| 3 | \$600-n-C6-ANE; F=014(57, 41) | 89.344 //2 |
| | KI= 626.9; F=018(56, 41) | 91.228 //2 |
| 5 | KI= 657.8; F=022(84, 41) | 95.935 //2 |
| 6 | KI= 661.1; F=023(78, 77) | 96.006 103 |
| 7 | KI= 671.3; F=024(56, 41) | 97.309 //3 |
| 8 | KI= 673.1; F=025(43, 85) | 100.465 //1 |
| 9 | KI= 679.6; F=026(43, 70) | 96.299 //2 |
| 10 | KI= 681.0; F=027(70, 41) | 91.978 //2 |
| 11 | KI= 682.8; F=028(70, 55) | 96.368 //2 |
| 12 | KI= 685.2; F=029(70, 56) | 91.505 //2 |
| 13 | \$700-n-C7-ANE; F=031(43, 100) | 100.228 //2 |
| 14 | KI= 710.9; F=036(83, 98) | 91.855 //2 |
| 15 | KI= 714.4; F=037(55, 97) | 108 -44- //2 |
| 16 | KI= 724.4; F=039(69, 41) | 97.483 //2 |
| 17 | KI= 730.9; F=040+041(57, 43) | 98.249 //1 |
| 18 | KI= 732.6; F=042(70, 55) | 101.802 //2 |
| 19 | KI= 734.1; F=043(43, 71) | 89.326 //2 |
| 20 | KI= 739.8; F=044(70, 55) | 103.397 //2 |
| 21 | KI= 756.7; F=049(70, 43) | 93.657 //1 |
| 22 | KI= 757.2; F=050(91, 92) | 101.466 //1 |
| 23 | KI= 765.8; F=052+053(57, 99) | 96.214 //1 |
| 24 | KI= 766.7; F=054(97, 112) | 97.922 //1 |
| 25 | KI= 768.6; F=055(97, 55) | 111.174 //1 |
| 26 | KI= 772.1; F=056(43, 57) | 96.690 //1 |
| 27 | KI= 784.0; F=062(97, 55) | 96.609 //3 |
| 28 | KI= 792.8; (97, 55) | 99.759 |
| 29 | \$800-n-C8-ANE; F=066(43, 85) | 97.156 //1 |
| 30 | KI= 820.8; F=075(83, 55) | 96.836 108 |
| 31 | KI= 824.7; F=076(69, 111) | 81.4 -44- 103 |
| 32 | KI= 827.5; F=078(43, 57) | 97.794 109 |
| 33 | KI= 833.4; F=079(57, 41) | 97.365 //1 |
| 34 | KI= 839.6; F=082(69, 111) | 101.539 //1 |
| 35 | KI= 851.3; F=088(91, 106) | 97.972 //1 |
| 36 | KI= 853.5; F=089(43, 84) | 99.383 //0 |
| 37 | KI= 859.5; F=091(91, 106) | 100.101 //1 |
| 38 | KI= 863.2; F=092+093(43, 85) | 111.154 109 |
| 39 | DUPLICATE OF UNRESOLVED 092+093 | 440.537 |

*** QUANTIFICATION REPORT ***

DIST. FUELS MASTER METHOD
PREPARED 9/2/83 KMSIMON

DATA FILE: 17742
STANDARDS FILE: 7000
CALIBRATIONS FILE: 8001

| I.D. NO. | COMPOUND NAME | CONC'N % REL. |
|----------|----------------------------------|---------------|
| 40 | KI= 870.5; F=096(57, 41) | 93.449 /09 |
| 41 | KI= 877.1; F=099(97, 55) | 103.130 //0 |
| 42 | KI= 881.5; F=102(91,106) | 100.624 //2 |
| 43 | \$1000-n-C9-ANE; F=109(57, 41) | 99.522 //1 |
| 44 | KI= 916.7; (43, 85) | 94.801 |
| 45 | KI= 919.7; (83, 82) | 96.323 |
| 46 | KI= 932.7; F=122(57, 71) | 103.210 //8 |
| 47 | KI= 938.3; F=123(57, 98) | 94.001 /3.2 |
| 48 | KI= 953.1; F=129+130(105,120) | 96.743 /08 |
| 49 | KI= 959.4; (105,120) | 96.431 |
| 50 | KI= 961.5; F=132(57, 43) | 94.817 /09 |
| 51 | KI= 964.3; F=133(57, 43) | 95.375 /08 |
| 52 | KI= 969.4; (105,120) | 98.362 |
| 53 | KI= 970.3; (57, 71) | 100.912 |
| 54 | KI= 993.1; F=144(105,120) | 97.063 //1 |
| 55 | \$1000-n-C10-ANE; F=149(57, 43) | 91.620 //1 |
| 56 | KI=1009.8; F=152(105,120) | 100.394 //0 |
| 57 | KI=1022.4; F=156+157(71, 57) | 95.817 //0 |
| 58 | KI=1037.3; (57, 71) | 101.580 |
| 59 | KI=1037.3; (67, 41) | 102.149 |
| 60 | KI=1043.4; F=167(105, 77) | 99.356 /24 |
| 61 | KI=1051.0; F=170(119,134) | 96.935 /24 |
| 62 | KI=1056.1; (105,134) | 101.619 |
| 63 | KI=1057.6; (57, 43) | 94.256 |
| 64 | KI=1060.5; F=174(71, 57) | 98.283 //4 |
| 65 | KI=1064.1; F=175(57, 71) | 100.315 //1 |
| 66 | KI=1067.8; F=178(119,134) | 98.700 //0 |
| 67 | KI=1069.5; F=177(57, 71) | 102.968 //1 |
| 68 | KI=1075.6; F=179(119,134) | 98.605 //1 |
| 69 | KI=1093.2; F=186(81, 67) | 107.933 //1 |
| 70 | \$1100-n-C11-ANE; F=187(57, 71) | 92.986 //2 |
| 71 | KI=1107.8; (119,134) | 93.072 |
| 72 | KI=1108.8; (81, 67) | 107.196 |
| 73 | KI=1124.6; (83, 82) | 106.464 |
| 74 | KI=1226.2; (57, 71) | 106.429 |
| 75 | KI=1162.4; F=214(57, 43) | 93.556 /09 |
| 76 | KI=1163.7; F=217(128, 81) | 99.682 /35 |
| 77 | KI=1167.7; (57, 41) | 111.050 |
| 78 | \$1200-n-C12-ANE; F=227(57, 43) | 97.631 //0 |
| 79 | KI=1213.8; F=232(57, 71) | 96.180 //2 |

*** QUANTIFICATION REPORT ***

DIST. FUELS MASTER METHOD
PREPARED 9/2/83 KMSIMON

DATA FILE: 17742
STANDARDS FILE: 7000
CALIBRATIONS FILE: 8001

| I.D. NO. | COMPOUND NAME | CONC'N % REL. |
|----------|---------------------------------|---------------|
| 80 | KI=1263.6; (57, 43) | 97.097 |
| 81 | KI=1272.7; (57,113) | 89.0 -0.00 |
| 82 | KI=1274.9; (141,142) | 99.987 |
| 83 | \$1300-n-C13-ANE;F=257(57, 71) | 97.821 109 |
| 84 | KI=1376.3; F=275(57, 71) | 103.018 107 |
| 85 | \$1400-n-C14-ANE;F=279(57, 43) | 96.071 109 |
| 86 | \$1500-n-C15-ANE;F=296(57, 43) | 94.471 108 |